



# **Program Directory for Tape Manager for z/VM**

version 1 release 3.0

Program Number 5697-J08

for Use with  
z/VM version 6 release 4

Document Date: January 2018

GI10-8660-14

**Note**

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 61.

This program directory, dated January 2018, applies to Tape Manager for z/VM version 1 release 3 (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 8 identifies the resources and considerations for installing and using Tape Manager.
- 6.0, “Installation Instructions” on page 18 provides detailed installation instructions for Tape Manager.
- 7.0, “Service Instructions” on page 43 provides detailed servicing instructions for Tape Manager.
- Appendix A, “Tape Manager Local Modification - EUMUIM ASSEMBLE example” on page 50 provides detailed instructions for applying a local modification to EUMUIM ASSEMBLE.
- Appendix B, “Create Product Parameter File (PPF) Override” on page 52 provides detailed information on overriding the Product Parameter File (PPF).
- Appendix C, “Traditional Service Commands” on page 55 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.

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## 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.

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## 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.

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### 2.1 Basic Machine-Readable Material

This program is available through the IBM® z/VM® SDO as an electronic envelope on DVD. 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](http://www.ibm.com/software/ShopzSeries). The DVD or electronic envelope contains all the programs and data needed for installation. See section 6.0, “Installation Instructions” on page 18 for more information about how to install the program. Figure 1 describes the program material. Figure 2 describes the file content of the product envelope.

*Figure 1. Basic Material: DVD*

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<b>Feature Number</b>	<b>Medium</b>	<b>Physical Volume</b>	<b>DVD Content</b>	<b>External DVD Label</b>
5802	DVD	1	Tape Manager 1.3.0	Tape Mgr z/VM V1.3

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 Envelope: File Content*

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<b>File</b>	<b>Content</b>
1	Header
2	Header
3	Product Header
4	Product Memo
5	Service Apply Lists
6	PTFPARTs
7	Tape Manager Service
8	Tape Manager Aux Files



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

File	Content
9	Tape Manager Server Executable Code
10	Tape Manager User Executable Code
11	Tape Manager Sample/Customization Files
12	Tape Manager Base Files

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## 2.2 Optional Machine-Readable Material

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

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## 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 web site:

[www.ibm.com/software/products/en/tapevm](http://www.ibm.com/software/products/en/tapevm)

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

[www.ibm.com/shop/publications/order](http://www.ibm.com/shop/publications/order)

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

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## 2.4 Program Source Materials

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

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## 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 6*

<b>Publication Title</b>	<b>Form Number</b>
<i>z/VM: VMSES/E Introduction and Reference</i>	GC24-6243
<i>z/VM: Service Guide</i>	GC24-6247
<i>z/VM: CMS Commands and Utilities Reference</i>	SC24-6166
<i>z/VM: CMS File Pool Planning, Administration, and Operation</i>	SC24-6167
<i>z/VM: Other Components Messages and Codes</i>	GC24-6207
<i>z/VM: CMS and REXX/VM Messages and Codes</i>	GC24-6161
<i>z/VM: CP Messages and Codes</i>	GC24-6177
<i>z/VM: CP Planning and Administration</i>	SC24-6178
<i>z/VM: Saved Segments Planning and Administration</i>	SC24-6229
<i>Tape Manager for z/VM Installation and Administration Guide</i>	SC18-9344

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## 3.0 Program Support

This section describes the IBM support available for Tape Manager.

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### 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*

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Retain			
COMPID	Release	Upgrade	Subset
5697J0800	130	TAPEZVM130	TAPE130

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### 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	130	Tape Manager 1.3.0	0400005

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## 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 cumulative service is also provided.

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### 4.1 Program Level Information

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

PK20300 / UK12147  
PK22719 / UK13726  
PK25582 / UK16098  
PK27715 / UK16098  
PK33162 / UK19781  
PK34249 / UK19486  
PK38883 / UK22429  
PK41992 / UK23360  
PK48896 / UK27136  
PK48976 / UK27142  
PK55813 / UK30844  
PK56645 / UK31341  
PK58423 / UK32814  
PK59145 / UK32888  
PK64351 / UK35569  
PK65178 / UK36015  
PK68108 / UK37707  
PK70136 / UK38722  
PK73877 / UK41542  
PK85551 / UK46150  
PK86158 / UK46386  
PK89027 / UK49856  
PK95340 / UK49856  
PK98921 / UK51457

If you are installing Tape Manager V1.3.0 from an SDO dated March 2012 or later, the following Tape Manager V1.3.0 PTFs have already been pre-installed:

PM46239 / UK71747  
PM45927 / UK71367  
PM46315 / UK71367  
PM38634 / UK67730

PM38635 / UK67730  
PM38637 / UK67730  
PM38770 / UK67730  
PM24916 / UK62125  
PM24919 / UK62125  
PM24921 / UK62125  
PM26554 / UK62125

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## 4.2 Service Level Information

No PTFs have been incorporated into Tape Manager.

Check the TAPEZVM130 PSP bucket for any additional PTFs that should be installed or any additional install information.

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## 4.3 Cumulative Service

Cumulative service for Tape Manager release 3.0 is available through a monthly corrective service envelope, Expanded Service Option, ESO. You need to specify the product ID, 5697J08C, when ordering the ESO.

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## 5.0 Installation Requirements and Considerations

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

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### 5.1 Hardware Requirements

Tape Manager release 3.0 will operate on any hardware that supports the prerequisite software.

Tape Manager release 3.0 will operate any tape device supported by a supported level of CMS. Support for sharing of tape devices requires 3480 tape devices, or later.

Tape Manager release 3.0 will operate on any Oracle StorageTek silos that interface with one of the following:

- VM/Host Software Component V6.2
- StorageTek VM Client V7.1 (with a StorageTek TapePlex server executing on MVS)

Note that the fix for Tape Manager APAR PM20384 is required to support Oracle StorageTek silos.

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### 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 6 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/altlibrary.html>
- DFSMS Removable Media Services (RMS) for support of an IBM Automated Tape Library (ATL) or Virtual Tape Server (VTS)
- One of the following for support of Oracle StorageTek silos:
  - Oracle StorageTek VM/Host Software Component V6.2

- StorageTek VM Client V7.1 (with a StorageTek TapePlex server executing on MVS)

In addition, the fix for Tape Manager APAR PM20384 is required to support Oracle StorageTek silos.

In addition, when using Tape Manager release 3.0 with DFSMSrmm, the following are required:

- z/OS® V2 (5650-zOS) R1, 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 Migration Considerations

If you are installing Tape Manager V1.3.0 over a previous release of Tape Manager, both pre-installation and post-installation migration steps may be required. Refer to 6.2, “Complete Migration Steps, If Necessary” on page 19 and 6.9, “Post-Installation Considerations” on page 40 and for more information.

### 5.2.4 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--5697J08C. 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 6.3, “Plan Your Installation For Tape Manager” step 6 on page 22, rather than after you have installed this product.

- There are several considerations for installation in a Single System Image (SSI) environment. Refer to the following web site for more information, including updated sample directory entries:  
<http://www.ibm.com/support/search.wss?q=SSI&tc=SSMR3B>
- If you are using an External Security Manager (such as IBM RACF Security Server), the following must be permitted:
  - From user ID 5697J08C, LINK MAINT 51D in MR mode
  - From user ID 5697J08C, LINK MAINT 5E5 in RR mode
  - If you plan to put the Tape Manager general use code on the 'Y' disk (product code or 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 5697J08C 310 in RR mode

- From user ID MAINT, ACCESS 5697J08C.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” for a list of Tape Manager user IDs.
- From TMTMM (or TCTMM and TRTMM in a shared catalog environment), TMDMM, TMLM1, TMCMM (if used), and TMRMM (if used), one of the following is required:
  - LINK 5697J08C 2C2 in RR mode
  - ACCESS 5697J08C.TAPEMGR.SAMPLE

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

- From TMTMM (or TCTMM and TRTMM in a shared catalog environment), read access to the TCPIP DATA file on the appropriate TCP/IP disk. This is required:
  - If you are using a shared catalog and you are specifying a host name on commands or in the configuration information.
  - If you are in RMM-mode and you have specified on the RMM statement a host name (rather than an IP address) for either the VM host or the z/OS host.
- Read access to the Tape Manager user code for all user IDs that will issue Tape Manager commands. By default, this code is in one of the following locations:
  - The 5697J08C 410 minidisk
  - The TMTMM (or TCTMM and TRTMM in a shared catalog environment) 410 minidisk

During product installation you may copy this code to MAINT 19D and MAINT 19E and let users access it from there.

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## 5.3 DASD Storage and User ID Requirements

Figure 7 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 6.3, “Plan Your Installation For Tape Manager” on page 20 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.
- 5697J08C 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 6.3, “Plan Your Installation For Tape Manager” step 6 on page 22.
- 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 7). 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
5697J08C	191	3390	60	86400	10800	5697J08C user ID's 191 minidisk <i>filepool1:5697J08C.</i>
5697J08C	2B2	3390	10	14400	1800	Contains all the base code shipped with Tape Manager <i>filepool1:5697J08C.TAPEMGR.BASE</i>
5697J08C	2C2	3390	2	2880	360	Contains sample files. <i>filepool1:5697J08C.TAPEMGR.SAMPLE</i>
5697J08C	2C4	3390	2	2880	360	Contains customization files. This disk may also be used for local modifications. <i>filepool1:5697J08C.TAPEMGR.LOCALMOD</i>
5697J08C	2D2	3390	60	86400	10800	Contains serviced files <i>filepool1:5697J08C.TAPEMGR.DELTA</i>
5697J08C	2A6	3390	2	2880	360	Contains AUX files and software inventory tables that represent the test service level of Tape Manager <i>filepool1:5697J08C.TAPEMGR.TESTAPPLY</i>
5697J08C	2A2	3390	2	2880	360	Contains AUX files and software inventory tables that represent the service level of Tape Manager that is currently in production. <i>filepool1:5697J08C.TAPEMGR.PRODAPPLY</i>

**Notes:**

1. 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.
2. It is recommended that the MDISK entry for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk in the CP directory specify the disk as RR. TxTMM will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while the Tape Manager service machines are running.
3. The default SFS file pool is VMSYS. IBM recommends creating a PPF override to use:
  - VMPSFS for all directories that will be shared across the cluster. These are noted as *filepool1* in the table.
  - A unique SFS file pool for all directories that should be unique on each member of the cluster. These are noted as *filepool2* in the table. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

Figure 7 (Page 2 of 7). 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
5697J08C	300	3390	10	14400	1800	Test build disk for server code. <i>filepool1:5697J08C.TAPEMGR.TESTSRVR</i> Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.
5697J08C	310	3390	3	4320	540	Test build disk for user code. <i>filepool1:5697J08C.TAPEMGR.TESTUSER</i> Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.
<b>5697J08C Totals</b>		<b>3390</b>	<b>151</b>	<b>217,440</b>	<b>27,180</b>	<b>Total DASD storage required for user ID 5697J08C.</b> Use the SFS total for 5697J08C in step 5 on page 25.
TxTMM	191	3390	2	2880	360	A-disk for TMTMM (or TCTMM and TRTMM in a shared catalog environment)  <i>filepool2:TxTMM</i>
TxTMM	198 (2*)	3390	2	2880	360	Tape Manager configuration files on TMTMM (or TCTMM and TRTMM in a shared catalog environment)  <i>filepool2:TxTMM.TMM198</i>

**Notes:**

1. 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.
2. It is recommended that the MDISK entry for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk in the CP directory specify the disk as RR. TxTMM will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while the Tape Manager service machines are running.
3. The default SFS file pool is VMSYS. IBM recommends creating a PPF override to use:
  - VMPSFS for all directories that will be shared across the cluster. These are noted as *filepool1* in the table.
  - A unique SFS file pool for all directories that should be unique on each member of the cluster. These are noted as *filepool2* in the table. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

Figure 7 (Page 3 of 7). 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
TxTMM	200	3390	30	43200	5400	<p>Database disk on TMTMM (or TCTMM and TRTMM in a shared catalog environment) server for Tape Manager catalog operations. This disk contains inventory and pool files.</p> <p>For RMM catalog operations, this disk is required but only needs to be 1 cylinder. It contains authorization files.</p> <p>In a shared catalog environment, this disk is only required on the catalog node. It is not required on any request nodes.</p> <p><i>filepool2:TxTMM.TMM200</i></p>
TxTMM	210	3390	5	7200	900	<p>Database disk on TMTMM (or TCTMM and TRTMM in a shared catalog environment) server for Tape Manager catalog operations. This disk contains pool volume files.</p> <p>For RMM catalog operations, this disk is not required.</p> <p>In a shared catalog environment, this disk is only required on the catalog node. It is not required on any request nodes.</p> <p><i>filepool2:TxTMM.TMM210</i></p>

**Notes:**

1. 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.
2. It is recommended that the MDISK entry for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk in the CP directory specify the disk as RR. TxTMM will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while the Tape Manager service machines are running.
3. The default SFS file pool is VMSYS. IBM recommends creating a PPF override to use:
  - VMPSFS for all directories that will be shared across the cluster. These are noted as *filepool1* in the table.
  - A unique SFS file pool for all directories that should be unique on each member of the cluster. These are noted as *filepool2* in the table. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

Figure 7 (Page 4 of 7). 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
TxTMM	1200	3390	30	43200	5400	<p>Migration and backup disk for TMTMM (or TCTMM and TRTMM in a shared catalog environment) 200 disk. The specified sizes are for Tape Manager catalog operations.</p> <p>For RMM catalog operations, this disk is required but only needs to be 1 cylinder.</p> <p>In a shared catalog environment, this disk is only required on the catalog node. It is not required on any request nodes.</p> <p><i>filepool2:TxTMM.TMM1200</i></p>
TxTMM	1210	3390	5	7200	900	<p>Migration and backup disk for TMTMM (or TCTMM and TRTMM in a shared catalog environment) 210 disk.</p> <p>This disk is required for Tape Manager catalog operations. This disk is not required for RMM catalog operations.</p> <p>In a shared catalog environment, this disk is only required on the catalog node. It is not required on any request nodes.</p> <p><i>filepool2:TxTMM.TMM1210</i></p>

**Notes:**

1. 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.
2. It is recommended that the MDISK entry for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk in the CP directory specify the disk as RR. TxTMM will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while the Tape Manager service machines are running.
3. The default SFS file pool is VMSYS. IBM recommends creating a PPF override to use:
  - VMPSFS for all directories that will be shared across the cluster. These are noted as *filepool1* in the table.
  - A unique SFS file pool for all directories that should be unique on each member of the cluster. These are noted as *filepool2* in the table. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

Figure 7 (Page 5 of 7). 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
TxTMM	400	3390	10	14400	1800	Production build disk for server code. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.
TxTMM	410	3390	3	4320	540	Production build disk for user code. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.
<b>TxTMM Totals</b>		<b>3390</b>	<b>87</b>	<b>125,280</b>	<b>15,660</b>	<b>Total DASD storage required for user ID TMTMM (or TCTMM and TRTMM in a shared catalog environment).</b> Use the SFS total for TMTMM (or TCTMM and TRTMM in a shared catalog environment) in step 5 on page 25.
TxDMM	191	3390	5	7200	900	A-disk for TMDMM server (or TCDMM and TRDMM in a shared catalog environment) Use the SFS value for TxDMM in step 5 on page 25.  <i>filepool2:TxDMM.</i>

**Notes:**

1. 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.
2. It is recommended that the MDISK entry for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk in the CP directory specify the disk as RR. TxTMM will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while the Tape Manager service machines are running.
3. The default SFS file pool is VMSYS. IBM recommends creating a PPF override to use:
  - VMPSFS for all directories that will be shared across the cluster. These are noted as *filepool1* in the table.
  - A unique SFS file pool for all directories that should be unique on each member of the cluster. These are noted as *filepool2* in the table. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

Figure 7 (Page 6 of 7). 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
TxLM1	191	3390	5	7200	900	A-disk for TMLM1 server. (or TCLM1 and TRLM1 in a shared catalog environment) This server is only required if you are using an Automated Tape Library or Virtual Tape Server. Use the SFS value for TxLM1 in step 5 on page 25.  <i>filepool2:TxLM1.</i>
TxCMM	191	3390	5	7200	900	A-disk for TMCMM server (or TCCMM and TRCMM in a shared catalog environment.) This user ID supports an external command exit and is not required if the command exit is internal to TxTMM or if the command exit is not used. Use the SFS value for TxCMM in step 5 on page 25.  <i>filepool2:TxCMM.</i>
TMRMM	191	3390	3	4320	540	A-disk for TMRMM server for RMM catalog operations. This user ID is not required for Tape Manager Dedicated Catalog nor Shared Catalog configurations. Use the SFS value for TMRMM in step 5 on page 25.  <i>filepool2:TMRMM.</i>

**Notes:**

1. 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.
2. It is recommended that the MDISK entry for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk in the CP directory specify the disk as RR. TxTMM will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while the Tape Manager service machines are running.
3. The default SFS file pool is VMSYS. IBM recommends creating a PPF override to use:
  - VMPSFS for all directories that will be shared across the cluster. These are noted as *filepool1* in the table.
  - A unique SFS file pool for all directories that should be unique on each member of the cluster. These are noted as *filepool2* in the table. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

Figure 7 (Page 7 of 7). 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
<b>All user IDs Totals</b>		<b>3390</b>	<b>256</b>	<b>374,640</b>	<b>46,080</b>	<b>Total DASD storage required for all Tape Manager user IDs.</b>

**Notes:**

1. 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.
2. It is recommended that the MDISK entry for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk in the CP directory specify the disk as RR. TxTMM will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while the Tape Manager service machines are running.
3. The default SFS file pool is VMSYS. IBM recommends creating a PPF override to use:
  - VMPSFS for all directories that will be shared across the cluster. These are noted as *filepool1* in the table.
  - A unique SFS file pool for all directories that should be unique on each member of the cluster. These are noted as *filepool2* in the table. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

---

## 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 V6.1 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.

- Complete any migration steps if necessary
- Plan Your Installation

Use the VMFINS command to load several VMSES/E files from the product envelope 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 ID needed to install the Tape Manager code.

- Install the Tape Manager Product

Use the VMFINS command to load the Tape Manager product files from the product envelope 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.

- Install Service for Tape Manager

Use the SERVICE command or the traditional service commands to install any available PTFs for Tape Manager.



- Allocate Additional Resources

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

- Place Tape Manager Files into Production

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

- Perform Post-installation Tasks

If you are installing Tape Manager V1.3.0 over a previous release of Tape Manager, complete the appropriate post-installation migration steps.

For new installations of Tape Manager, information about file tailoring and initial activation of the program is provided 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 Complete Migration Steps, If Necessary

If you are installing Tape Manager V1.3.0 over a previous release of Tape Manager, complete the appropriate migration steps before installing V1.3.0. Additional migration steps will be required after installation and will be discussed later.

### 6.2.1 Migrating from Tape Manager V1.2.0

The following changes are required to a system running Tape Manager V1.2.0 in order to run V1.3.0. More details are in the following sections.

- Apply service to Tape Manager V1.2.0.
- Add new minidisks (or SFS directories) and increase disk sizes for some Tape Manager service machines.
- Modify other CP directory entry information for some Tape Manager service machines.

#### 6.2.1.1 Apply service to Tape Manager V1.2.0

Before migrating to Tape Manager V1.3.0, IBM strongly recommends that you apply the fix for APAR PM20382 to your Tape Manager V1.2.0 system. This PTF provides backward compatibility for a tape catalog that has been migrated to the V1.3.0 format.

Note that any updates you make to the catalog in V1.3.0 that exploit new features will be lost if the catalog is then used on a V1.2.0 system. For example, any data in the TEXT field that is beyond 16 characters (32 characters are allowed in V1.3.0) will be lost if the catalog is used on a V1.2.0 system (which only allows 16 characters).

All catalog contents created or updated using V1.3.0 that are compatible with a V1.2.0 catalog will be maintained if the catalog is moved back to a V1.2.0 system.

### 6.2.1.2 Add and update minidisks (or SFS directories)

The following disks are new or changed since Tape Manager V1.2.0:

- TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 - new minidisk
- TMTMM (or TCTMM and TRTMM in a shared catalog environment) 400 - new minidisk
- TMTMM (or TCTMM and TRTMM in a shared catalog environment) 410 - new minidisk
- TMTMM (or TCTMM in a shared catalog environment) 1200 - new minidisk. This minidisk is not required for TRTMM in a shared catalog environment.
- TMTMM (or TCTMM in a shared catalog environment) 1210 - new minidisk This minidisk is not required for TRTMM in a shared catalog environment.
- TMTMM (or TCTMM in a shared catalog environment) 200 - new minidisk for RMM catalog operations. Tape Manager catalog operations should already have this disk. This minidisk is not required for TRTMM in a shared catalog environment.
- TRTMM 200 - this minidisk is not required for TRTMM in a shared catalog environment. Tape Manager catalog operations should already have this disk for TMTMM or TCTMM.

Refer to 5.3, “DASD Storage and User ID Requirements” on page 10 for more information on required user IDs, disk addresses, and sizes.

### 6.2.1.3 Modify other CP directory information

Modify the directory entries for existing Tape Manager service machines as follows:

- Add privilege class B to the TMLM1 user ID (and any other TMLMn user IDs.)
- Increase the default virtual memory size for the TMTMM (or TCTMM and TRTMM in a shared catalog environment) user ID to 60M.

---

## 6.3 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 installation files
- generate a 'PLANINFO' file listing
  - all user ID and mdisks/SFS directory requirements
  - required products

### Electronic Delivery (envelope file)

If you have received the product electronically or on DVD, follow the appropriate instructions to retrieve and decompress the envelope files to the MAINT $vrm$  500 minidisk. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

For more information on retrieving and decompressing products received as envelope files, visit <http://www.vm.ibm.com/install/vmlpinst.html>

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. IBM suggests using MAINT $vrm$ .

- 2 Provide the installation planning user ID access to the code.

**vmlink MAINT $vrm$  500 <\* C RR>**

- 3 Establish read access to the VMSES/E code.

**vmlink MAINT 5E5 <\* B RR>**

The 5E5 disk contains the VMSES/E code.

- 4 Establish write access to the Software Inventory disk.

**vmlink MAINT 51D <51D D M>**

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 need to have that user re-link the 51D in read-only mode (RR), and then re-issue the above VMLINK command. 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.

**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.
- The default SFS file pool is VMSYS. IBM recommends
  - Using VMPSFS for all directories that will be shared across the cluster
  - Using a unique SFS file pool on each member of the cluster for the directories which should be unique on each member. These include production directories and all directories for multipconfiguration users. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

You will need to create a PPF override to use these file pools.

- 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 5697J08C 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.

**vmfins install ppf 5697J08C {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 5697J08C TAPEMGR
             :PRODID 5697J08C%TAPEMGR?
             Enter 0 (No), 1 (Yes) or 2 (Exit)

0
VMFINS2603I Processing product :PPF 5697J08C TAPEMGR :PRODID
             5697J08C%TAPEMGR
VMFREQ1909I 5697J08C PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5697J08C TAPEMGR :PRODID 5697J08C%TAPEMGR
             has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5697J08C TAPEMGR
             :PRODID 5697J08C%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**

**8** If you manage your system directory on the MAINT 2CC minidisk, re-access it

acc 2CC c

---

## 6.4 Allocate Resources for the Tape Manager Code

Use the planning information in the 5697J08C PLANINFO file, created in the **PLAN** step, to:

- Create the 5697J08C user directory for minidisk install. Refer to 6.4.1, “Installing Tape Manager on Minidisk” for detailed instructions.

**OR**

- Create the 5697J08C user directory for SFS install. Refer to 6.4.2, “Installing Tape Manager in SFS Directories” on page 25 for detailed instructions.

### 6.4.1 Installing Tape Manager on Minidisk

**1** Obtain the sample user directory entry for 5697J08C from the 5697J08C PLANINFO file.

**Note:** The user directory entry for 5697J08C is located in the resource section of the PLANINFO file, at the bottom; this entry contains all of the links and privilege classes necessary for the 5697J08C user ID. Use the directory entry found in PLANINFO as a model as input to your system directory.

**2** Add the 5697J08C directory entry to the system directory.

The resource planning information provided in 5697J08C PLANINFO reflects the recommendation that 5697J08C be defined as single configuration user.

**3** Change the password for 5697J08C from xxxxxxxx to valid passwords, in accordance with your security guidelines.

**4** Add the MDISK statements to the directory entry for 5697J08C Use Figure 7 on page 10 to obtain the minidisk requirements.

**5** Place the new directory online using the DIRECTXA command or an equivalent CP directory maintenance method, such as IBM® DirMaint™.

If you are installing Tape Manager in a z/VM Single System Image cluster, and using DIRECTXA, place the directory on-line on each member of the cluster.

**6** Format all minidisks for the 5697J08C user ID. For each minidisk, perform the following:

**link 5697J08C** *devaddr1 devaddr2 mr*  
**format** *devaddr2 filemode*  
**1**  
*label*  
**rel** *devaddr2 (det*

**devaddr1** is the virtual device address to be formatted for 5697J08C.

**devaddr2** is an available virtual device address.

**filemode** is an available filemode.

**label** is the minidisk label.

**7** Continue with 6.5, “Install the Tape Manager Code” on page 27.

## 6.4.2 Installing Tape Manager in SFS Directories

Obtain the sample user directory entry for 5697J08C from the 5697J08C PLANINFO file.

**Note:** The user directory entry for 5697J08C is located in the resource section of the PLANINFO file, at the bottom; this entry contains all of the links and privilege classes necessary for the 5697J08C user ID. Use the directory entry found in PLANINFO as a model as input to your system directory.

**1** Add the 5697J08C directory entry to the system directory.

The resource planning information provided in 5697J08C PLANINFO reflects the recommendation that 5697J08C be defined as a single configuration user.

**2** Change the password for 5697J08C from xxxxxxxx to a valid password, in accordance with your security guidelines.

**3** If you intend to use an SFS directory as the work space for the 5697J08C user ID, include the following IPL control statement in its directory entry:

```
IPL CMS PARM FILEPOOL filepool
```

where *filepool* is the name of the file pool you specified for installation of Tape Manager in SFS. Refer to Figure 7 on page 10.

**4** Place the new directory online using the DIRECTXA command or an equivalent CP directory maintenance method, such as DirMaint.

If you are installing Tape Manager in a z/VM Single System Image cluster and using DIRECTXA, place the directory online on each member of the cluster.

**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 10.

This information will be used when enrolling the 5697J08C and service virtual machine user IDs in the VMSYS, VMPSFS, or MYPOOL1 file pool.

- b** Enroll user 5697J08C in the appropriate file pools using the ENROLL USER command:

```
ENROLL USER 5697J08C filepool: (BLOCKS blocks)
```

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

where *filepool* is the name of the file pool. IBM recommends using both VMPSFS and a file pool that is unique on each member of the cluster. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

**Note:** This must be done from a user ID that is an administrator for the specified file pool.

- c** Enroll any of the service virtual machines, that you are going to use, in the appropriate file pool using the ENROLL USER command. You need to issue then ENROLL USER command for each service machine user ID you plan on using.

```
ENROLL USER svmlD filepool: (BLOCKS blocks)
```

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

where *filepool* is the name of the file pool. IBM recommends using a unique file pool for the service machines. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1.

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 the specified file pool.

- d** If you are going to place Tape Manager general use code on MAINT's 19E disk then you need to give the **MAINT** or **MAINTvrm** user ID READ authority to the general-use test build directory, using the GRANT



AUTHORITY command. Refer to step 5 on page 38 for more information on placing general use code on MAINT 19E disk.

**grant auth *filepool:5697J08C.tapemgr.testuser* to MAINT<sub>vrn</sub> (read newread**

where MAINT<sub>vrn</sub> is the installation and maintenance user ID for the release of z/VM you are using.

where *filepool* is the name of the file pool. IBM recommends using VMPSFS.

---

## 6.5 Install the Tape Manager Code

The *ppfname* used throughout these installation instructions is **5697J08C**, 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 **5697J08C**. The *ppfname* you use should be used **throughout** the rest of this procedure.

- 1** Logon to the installation user ID **5697J08C**.
- 2** Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks and define RETRIEVE keys.

**xedit profile exec a**

Add the following lines to the PROFILE EXEC:

```
/**  
'ACCESS 5E5 B'  
'ACCESS 51D D'  
'CP SET PF11 RETRIEVE FORWARD'  
'CP SET PF12 RETRIEVE BACKWARD'
```

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

In this example, you can now use PF11 and PF12 to find, modify, and execute previously executed commands.

**file**

Save your changes and close the file.

- 3** Run the profile to access MAINT's minidisks and activate the RETRIEVE keys.

**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 command to obtain R/W access to it.

```
vmLink MAINT 51D <51D D M>
```

**5** Provide the installation user ID access to the code.

```
vmLink MAINTvrm 500 < * C RR >
```

**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 (5697J08C), 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.

```
vmfins install ppf 5697J08C {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 5697J08C TAPEMGR
:PRODID 5697J08C%TAPEMGR?
Enter 0 (No), 1 (Yes) or 2 (Exit)

0
VMFINS2603I Processing product :PPF 5697J08C TAPEMGR :PRODID
5697J08C%TAPEMGR
VMFREQ2805I Product :PPF 5697J08C TAPEMGR :PRODID 5697J08C%TAPEMGR
has passed requisite checking
VMFINT2603I Installing product :PPF 5697J08C TAPEMGR :PRODID
5697J08C%TAPEMGR
VMFSET2760I VMFSETUP processing started for 5697J08C 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 APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (G)
VMFRCA2159I Loaded 1 part(s) to APPLY 2A6 (G)
VMFREC1851I (4 of 8) VMFRCALL processing DELTA
VMFRCC2159I Loading 0 part(s) to DELTA 2D2 (I)
VMFREC1851I (5 of 8) VMFRCALL processing SERVER
VMFRCA2159I Loading part(s) to BUILD0 300 (J)
VMFRCA2159I Loaded 22 part(s) to BUILD0 300 (J)
VMFREC1851I (6 of 8) VMFRCALL processing USER
VMFRCA2159I Loading part(s) to BUILD2 310 (K)
VMFRCA2159I Loaded 30 part(s) to BUILD2 310 (K)
VMFREC1851I (7 of 8) VMFRCALL processing SAMPLE
VMFRCA2159I Loading part(s) to LOCALSAM 2C2 (F)
VMFRCA2159I Loaded 23 part(s) to LOCALSAM 2C2 (F)
VMFREC1851I (8 of 8) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (L)
VMFRCA2159I Loaded 83 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**

## 6.5.1 Update Build Status Table for Tape Manager

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

**vmfins build ppf 5697J08C {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 envelope (if any) and update the Software Inventory build status table showing that the product 5697J08C 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**

- 3 Logoff user ID 5697J08C.

---

## 6.6 Install Service for Tape Manager

Follow the instructions in 7.2, "Servicing Tape Manager" on page 44 to apply any available PTFs for Tape Manager.

**Note**

Since this is an initial installation of Tape Manager V1.3.0, do **not** place the Tape Manager into production as part of the service install process. Skip 7.3, “Place the New Tape Manager Service Into Production” on page 46. Instead, you will copy the code to production after all installation steps are complete.

## 6.7 Allocate Resources for Configuring and Running Tape Manager

**Note**

If you are installing in a Single System Image (SSI) cluster, there are several considerations. Refer to the following web site for more information:

<http://www.ibm.com/support/search.wss?q=SSI&tc=SSMR3B>

Use the sample directory entries provided on the 5697J08C 2C2 minidisk or associated SFS directory:

- Create the service virtual machine user directories for minidisk install. Refer to 6.7.1, “Configuring and Running Tape Manager on Minidisk” for detailed instructions.

**OR**

- Create the service virtual machine user directories for SFS install. Refer to 6.7.2, “Configuring and Running Tape Manager in SFS Directories” on page 33 for detailed instructions.

### 6.7.1 Configuring and Running Tape Manager on Minidisk

**1** Logon to MAINT`vrm`

If you are installing on a system that has a previous release of Tape Manager installed, skip to step 7 on page 33.

**2** If you are installing Tape Manager for the first time, obtain the sample user directory entries from 5697J08C 2C2 minidisk.

**Note:** The user directory entries have a filetype of SAMPDIR; these entries will contain all of the links, privilege classes, and minidisks necessary for the service virtual machine user IDs.

Sample directory entries are provided for different user IDs depending on whether you will be using an RMM Catalog, a Dedicated Catalog, or a Shared Catalog. Recommendations are listed below.

For more information on RMM Catalog, Dedicated Catalog, and Shared Catalog configurations, refer to *Tape Manager for z/VM Installation and Administration Guide (SC18-9344)*.

Use these sample directory entries as a model as input to your system directory.

**3** Add the service virtual machine directory entries to the system directory.

The samples reflect the following recommendations:

- If you plan to configure Tape Manager for a Dedicated Catalog environment or an RMM Catalog environment, IBM recommends using the following user IDs for the Tape Manager service machines. Unless otherwise noted, all of the following IDs can be multiconfiguration users (IDENTITY IDs) with minidisks in the SUBCONFIG section of the directory entry:
  - TMTMM
  - TMDMM
  - TMLM1 (if needed)
  - TMCMM (if needed)
  - TMRMM (only needed for RMM Catalog configurations)
- If you plan to configure Tape Manager for a Shared Catalog environment, IBM recommends using the following user IDs for the Tape Manager service machines. Unless otherwise noted, all of the following IDs can be multiconfiguration users (IDENTITY IDs) with minidisks in the SUBCONFIG section of the directory entry:
  - TCTMM for the TMM on the Catalog Node. This user ID should be a single configuration user.
  - TCDMM for the DMM on the Catalog Node. This user ID should be a single configuration user.
  - TCLM1 for the LMM on the Catalog Node (if needed.) This user ID should be a single configuration user.
  - TCCMM for the CMM on the Catalog Node (if needed.) This user ID should be a single configuration user.
  - TRTMM for the TMM on each Request Node
  - TRDMM for the DMM on each Request Node
  - TRLM1 for the LMM on each Request Node (if needed)
  - TRCMM for the CMM on each Request Node (if needed)
  - (TxRMM is not valid in a Shared Catalog configuration)

**4** Change the passwords for all the user IDs you are adding from xxxxxxxx to valid passwords, in accordance with your security guidelines.

**5** If you are using the directory maintenance product DirMaint, remove the BUILD ON statements from the sample IDENTITY entries.

- 6 Place the new directory online using the DIRECTXA command or an equivalent CP directory maintenance method, such as DirMaint.

If you are installing Tape Manager in a z/VM Single System Image cluster and using DIRECTXA, place the directory online on each member of the cluster.

- 7 If you are installing Tape Manager for the first time, format all minidisks for the service virtual machine user IDs.

If you are installing on a system that has a previous release of Tape Manager installed, format all new minidisks for the service virtual machine user IDs.

For each minidisk, perform the following:

```
link userid devaddr1 devaddr2 mr
format devaddr2 filemode
1
label
rel devaddr2 (det
```

**userid** is the user ID that owns the disk you are formatting (for example, one of the Tape Manager service virtual machine user IDs.)

**devaddr1** is the virtual device address to be formatted for specified user ID.

**devaddr2** is an available virtual device address.

**filemode** is an available filemode.

**label** is the minidisk label.

- 8 Continue with 6.8, "Place Tape Manager Into Production" on page 37.

## 6.7.2 Configuring and Running Tape Manager in SFS Directories

- 1 Logon to MAINT`vr`m

If you are installing on a system that has a previous release of Tape Manager installed, skip to step 7d on page 36.

- 2 If you are installing Tape Manager for the first time, obtain the sample user directory entries from the samples directory:  
VMPSFS:5697J08C.TAPEMGR.SAMPLE

**Note:** The user directory entries have a filetype of SAMPDIR; these entries will contain all of the links and privilege classes necessary for the service virtual machine user IDs.

Sample directory entries are provided for different user IDs depending on whether you will be using an RMM Catalog, a Dedicated Catalog, or a Shared Catalog. Recommendations are listed below.

For more information on RMM Catalog, Dedicated Catalog, and Shared Catalog configurations, refer to *Tape Manager for z/VM Installation and Administration Guide (SC18-9344)*.

Use these sample directory entries as a model as input to your system directory.

### **3** Add the service virtual machine directory entries to the system directory.

The samples reflect the following recommendations:

- If you plan to configure Tape Manager for a Dedicated Catalog environment or an RMM Catalog environment, IBM recommends using the following user IDs for the Tape Manager service machines. Unless otherwise noted, all of the following IDs can be multiconfiguration users (IDENTITY IDs) with minidisks in the SUBCONFIG section of the directory entry:
  - TMTMM
  - TMDMM
  - TMLM1 (if needed)
  - TMCMM (if needed)
  - TMRMM (only needed for RMM Catalog configurations)
- If you plan to configure Tape Manager for a Shared Catalog environment, IBM recommends using the following user IDs for the Tape Manager service machines. Unless otherwise noted, all of the following IDs can be multiconfiguration users (IDENTITY IDs) with minidisks in the SUBCONFIG section of the directory entry:
  - TCTMM for the TMM on the Catalog Node. This user ID should be a single configuration user.
  - TCDMM for the DMM on the Catalog Node. This user ID should be a single configuration user.
  - TCLM1 for the LMM on the Catalog Node (if needed.) This user ID should be a single configuration user.
  - TCCMM for the CMM on the Catalog Node (if needed.) This user ID should be a single configuration user.
  - TRTMM for the TMM on each Request Node
  - TRDMM for the DMM on each Request Node
  - TRLM1 for the LMM on each Request Node (if needed)
  - TRCMM for the CMM on each Request Node (if needed)



– (TxRMM is not valid in a Shared Catalog configuration)

**4** Change the passwords for all the user IDs you are adding from xxxxxxxx to valid passwords, in accordance with your security guidelines.

**5** If you intend to use an SFS directory as the work space for the 5697J08C 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 filepool
```

where *filepool* is the name of the file pool you specified for installation of Tape Manager in SFS. Refer to Figure 7 on page 10.

**6** Place the new directory online using the DIRECTXA command or an equivalent CP directory maintenance method, such as DirMaint.

If you are installing Tape Manager in a z/VM Single System Image cluster and using DIRECTXA, place the directory online on each member of the cluster.

**7** 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 10.

This information will be used when enrolling the service virtual machine user IDs in the VMSYS file pool or the local file pool you have specified in the PPF override.

**b** Enroll the service virtual machines in the appropriate file pool using the ENROLL USER command. You need to issue the ENROLL USER command for each service machine user ID.

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

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

where *filepool* is the name of the file pool. The default is VMSYS for all releases of z/VM.

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 the specified file pool.

- c** Determine if there are enough blocks available in the file pool 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 file pool. See the *CMS File Pool Planning, Administration, and Operation* manual for information on adding space to a file pool.
- d** If you are installing Tape Manager for the first time, create all required subdirectories for the service virtual machine user IDs.  
If you are installing on a system that has a previous release of Tape Manager installed, create the new subdirectories for the service virtual machines user IDs.

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

*dirid* is the name of the SFS directory you're creating.

*filepool* is the name of the file pool.

Refer to Figure 7 on page 10 for more information on directory and file pool names.

An example of the create command is:

```
create directory filepool:5697J08C.tapemgr
create directory filepool:5697J08C.tapemgr.base
:
```

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

- e** If you plan to place Tape Manager general use code on the MAINT 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 5 on page 39 for more information on placing general use code on MAINT 19E disk.

**grant auth** *filepool:5697J08C.tapemgr.testuser* to **MAINT***vrn* (**read newread**

where MAINT*vrn* is the installation and maintenance user ID for the release of z/VM you are using.

where *filepool* is the name of the file pool. IBM recommends using VMPSFS.

---

## 6.8 Place Tape Manager Into Production

If you are installing on minidisks, follow the steps in 6.8.1, “Copy Tape Manager Files Into Production on Using Minidisks” and then go to 6.9, “Post-Installation Considerations” on page 40.

If you are installing using Shared File System, follow the steps in 6.8.2, “Copy Tape Manager Files Into Production Using Shared File System” on page 38 and then go to 6.9, “Post-Installation Considerations” on page 40.

### 6.8.1 Copy Tape Manager Files Into Production on Using Minidisks

Perform all of the following steps on **each member** of an SSI cluster.

- 1** If you have just installed Tape Manager for the first time, skip this step. If you have just installed a new release of Tape Manager, stop and logoff all Tape Manager service machines.
- 2** Logon to MAINT $vrm$
- 3** Copy the Tape Manager Service Machine executables to the production disk. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

`vmlink 5697J08C 300 <* F RR>`

`vmlink TxTMM 400 <* G M>`

`vmfcopy * * f = = g (prodid 5697J08C%TAPEMGR olddate replace`

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

- 4** Copy the general use code and help files to the production disk. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

**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.

`vmlink 5697J08C 310 <* F RR>`

`vmlink TxTMM 410 <* G M>`

`vmfcopy * * f = = g (prodid 5697J08C%TAPEMGR olddate replace`

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

- 5** Logon to MAINT`vr`m 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.

```
vmfcopy * module f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
vmfcopy tapcmd defaults f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
```

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

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

```
vmfcopy * helpaeum f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
vmfcopy aeum helpmenu f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
```

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

- 7** If the MAINT`vr`m 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status.

```
put2prod savecms
```

- 8** Continue with 6.9, "Post-Installation Considerations" on page 40.

## 6.8.2 Copy Tape Manager Files Into Production Using Shared File System

Perform all of the following steps on **each member** of an SSI cluster.

- 1** If you have just installed Tape Manager for the first time, skip this step. If you have just installed a new release of Tape Manager, stop and logoff all Tape Manager service machines.
- 2** Logon to MAINT`vr`m

- 3 Copy the Tape Manager Service Machine executables to the production disk. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

```
access 5697J08C.TAPEMGR.TESTSRVR f
vmlink TxTMM 400 <* G M>
vmfcopy * * f = = g (prodid 5697J08C%TAPEMGR olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the TxTMM 400

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

- 4 Copy the general use code and help files to the production disk. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

**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 5697J08C.TAPEMGR.TESTUSER f
vmlink TxTMM 410 <* G M>
vmfcopy * * f = = g (prodid 5697J08C%TAPEMGR olddate replace
```

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

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

- 5 Logon to MAINT*vrm* 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 5697J08C.TAPEMGR.TESTUSER f
vmlink MAINTvrm 19E <* G M>
vmfcopy * module f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
vmfcopy tapcmd defaults f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
```

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

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

- 6 Logon to MAINT<sub>vrm</sub> if you plan to put Tape Manager help files on the system AMENG Help (MAINT's 19D) disk.

```
access 5697J08C.TAPEMGR.TESTUSER f
vmlink MAINTvrm 19D <* G M>
```

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

```
vmfcopy * helpaeum f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
vmfcopy aeum helpmenu f = = g2 (prodid 5697J08C%TAPEMGR olddate replace
```

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

- 7 If the MAINT<sub>vrm</sub> 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status.

```
put2prod savecms
```

- 8 Continue with 6.9, "Post-Installation Considerations."

---

## 6.9 Post-Installation Considerations

For new installations of Tape Manager, post-installation information is contained in the Tape Manager Installation and Administration Guide (SC18-9344). In order to use Tape Manager, perform the steps required for file tailoring and initial activation of the program, as described in the Installation and Administration Guide.

If you are installing Tape Manager V1.3.0 over a previous release of Tape Manager, complete the appropriate post-installation migration steps.

## 6.9.1 Migrating from Tape Manager V1.2.0

The following changes are required to a system running Tape Manager V1.2.0 in order to run V1.3.0:

1. Move the Tape Manager configuration file

In Tape Manager V1.2.0, the Tape Manager configuration file (SYS CONFIG) was located on the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 191 disk. In V1.3.0, this configuration file can be on any disk or SFS directory accessed by the TMTMM (or TCTMM and TRTMM in a shared catalog environment) service machine. IBM recommends moving this file to the new TMTMM (or TCTMM and TRTMM in a shared catalog environment) 198 disk or the in the *filepool:TxTMM.TMM198* SFS directory.

2. Update Tape Manager configuration information

Following are the configuration changes required when migrating from V1.2.0 to V1.3.0:

- a. Some new statements are required in the Tape Manager configuration file SYS CONFIG, some new statements are optional, and some existing statements have been enhanced. Refer to the Tape Manager Installation and Administration Guide for details on the new statements.

Examples of the new statements are provided in the sample configuration files:

- **STDMODE CONFSAMP** for Dedicated Catalog environments
- **CATMODE CONFSAMP** for the Catalog Node in Shared Catalog environments
- **REQMODE CONFSAMP** for the Request Nodes in Shared Catalog environments
- **RMMMODE CONFSAMP** for RMM Catalog environments

Sample files are located on the 5697J08C 2C2 disk or in the *filepool:5697J08C.TAPEMGR.SAMPLE* SFS directory.

- **Define\_Media** - replaces the SYS MEDIA file
- **Message\_Consoles** - replaces the message ID's in PROFILE EXEC for TMTMM (or TCTMM and TRTMM in a shared catalog environment.)
- **External\_Security** - defines options for integration with RACF or other External Security Manager
- **Define\_Local\_Node** - defines the local node
- **Define\_Remote\_Node** - defines the remote node Note that a remote request node (non-catalog) can be defined dynamically (temporarily) on the catalog node
- **DISK DB1BKUP** - defines the minidisk or SFS directory used to back up the Tape Manager catalog inventory and pool files. This is required before the catalog can be migrated to V1.3.0 format.
- **DISK DB2BKUP** - defines the minidisk or SFS directory used to back up the Tape Manager catalog pool volume files. This is required before the catalog can be migrated to V1.3.0 format.
- **ATTACH** - has been enhanced to support the shared catalog environment
- **LIBRARY** - has been enhanced to support the shared catalog environment

- **DISK** - the filemode parameter is now ignored and can be removed

b. Although not mandatory, the following statement should be removed from SYS CONFIG:

```
/* APPLID is the default ID for the message repository      */
/*                                                         */
APPLID      EUM                /* Applid for XMITMSG      */
```

This statement is no longer required and will be ignored.

c. Since the options previously in SYS MEDIA are now in SYS CONFIG, the SYS MEDIA file located on the TMTMM (or TCTMM and TRTMM in a shared catalog environment) 191 disk or in the *filepool:TxTMM.TMM191* SFS directory can be deleted. Any remaining SYS MEDIA file will be ignored.

d. The PROFILE EXEC for TMTMM (or TCTMM and TRTMM in a shared catalog environment) has been changed. The new sample PROFILE EXEC (PROFTMM SAMPEXEC) should be used and any customizations that are still appropriate for V1.3.0 should be re-applied to the new PROFILE EXEC. Note that since the message ID's previously in the PROFILE EXEC for TMTMM (or TCTMM and TRTMM in a shared catalog environment) are now in SYS CONFIG, the following statements have been removed in PROFTMM SAMPEXEC:

```
/* Default values for message ID's                        */
adm_n_id = 'TMADMN  '; /* Substantially all info and error messages  */
oper_id = 'OPERATOR'; /* Limited, but significant, messages                */
mnt1_id = 'TMOPER1  '; /* Mount related messages                            */
mnt2_id = '          '; /* Mount related messages                            */
```

If these statements appear in the PROFILE EXEC for TMTMM (or TCTMM and TRTMM in a shared catalog environment), Tape Manager V1.3.0 will ignore them.

### 3. Back up and migrate the Tape Manager catalog

The format of the Tape Manager catalog has changed in V1.3.0. Tape Manager has extended some records; as a result, the Tape Manager catalog files must be reformatted. The migration process is designed to occur automatically the first time the TMTMM (or TCTMM and TRTMM in a shared catalog environment) service machine in Tape Manager V1.3.0 is started (if the program detects that a migration is required.)

The migration process includes a facility to automatically back up the catalog prior to migration using two additional disks that are specified in the system configuration file. The process also attempts automatic recovery of the catalog if the process terminates abnormally. Additionally, the migration process will restart the migration automatically in the event the process is interrupted by an external event, such as a system shutdown.

**Note:** Customers who are configuring Tape Manager to use the RMM catalog do not need to migrate their catalog, since the catalog is in RMM on z/OS.

**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 DVD, follow the appropriate instructions to retrieve and decompress the envelope files to the MAINTvrm 500 minidisk. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

For more information on retrieving and decompressing service received as envelope files from Shopz, visit

<http://www.vm.ibm.com/install/servinst.html>

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 55.

### 7.2.1 Automated Service Commands

- 1** Logon to the Tape Manager service user ID: **MAINTvrm**
- 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 command to obtain R/W access to it.

**vmlink MAINT 51D <51D D M>**

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 Provide the service user ID access to the service envelope.

**acc 500 c**

- 6 Receive any memos from the documentation envelope file and review them.

**service {5697J08C%tapemgr | 5697J08C%tapemgrsfs} docenvfn**  
**vmfupdat sysmemo**

*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

**service {5697J08C%tapemgr | 5697J08C%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** If you have just installed Tape Manager for the first time, or installed a new release of Tape Manager, return to 6.7, “Allocate Resources for Configuring and Running Tape Manager” on page 31. Do **not** continue with copying files into production.

If you have a running Tape Manager system and are only applying service, 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

### Note

If you are installing Tape Manager V1.3.0 on this system or SSI cluster for the first time, skip these steps and return to 6.4, “Allocate Resources for the Tape Manager Code” on page 24.

If you installed the product on 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 48.

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

Perform all of the following steps on **each member** of an SSI cluster.

- 1** Stop and logoff all Tape Manager service machines
- 2** Logon to MAINT*vrm*
- 3** Copy the Tape Manager Service Machine executables to the production disk. Replace TxTMM with TMTMM in RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

**vmlink 5697J08C 300 <\* F RR>**

**vmlink TxTMM 400 <\* G M>**

**vmfcopy \* \* f = = g (prodid 5697J08C%TAPEMGR olddate replace**

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

- 4** Copy the general use code and help files to the production disk. Replace TxTMM with TMTMM in RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

**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.

**vmlink 5697J08C 310 <\* F RR>** The VMFCOPY command will update the VMSES  
**vmlink TxTMM 410 <\* G M>** PARTCAT file on the 410 disk.  
**vmfcopy \* \* f = = g (prodid 5697J08C%TAPEMGR olddate replace**

- 5** Logon to MAINT<sub>vrm</sub> 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.

**vmlink 5697J08C 310 <\* F RR>** The VMFCOPY command will update the VMSES  
**vmlink MAINT<sub>vrm</sub> 19E <\* G M>** PARTCAT file on the 19E disk.  
**vmfcopy \* module f = = g2 (prodid 5697J08C%TAPEMGR olddate replace**

- 6** Logon to MAINT<sub>vrm</sub> if you plan to put Tape Manager help files on the system AMENG Help (MAINT's 19D) disk.

**vmlink 5697J08C 310 <\* F RR>** The VMFCOPY command will update the VMSES  
**vmlink MAINT<sub>vrm</sub> 19D <\* G M>** PARTCAT file on the AMENG Help (MAINT 19D) disk.  
**vmfcopy \* helpaeum f = = g2 (prodid 5697J08C%TAPEMGR olddate replace**  
**vmfcopy aeum helpmenu f = = g2 (prodid 5697J08C%TAPEMGR olddate replace**

- 7** If the MAINT<sub>vrm</sub> 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status.

**put2prod savecms**

**You have finished servicing Tape Manager.**

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

Perform all of the following steps on **each member** of an SSI cluster.

- 1** Stop and logoff all Tape Manager service machines
- 2** Logon to MAINT $\nu$ rm
- 3** Copy the Tape Manager Service Machine executables to the production disk. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

```
access 5697J08C.TAPEMGR.TESTSRVR f
vmlink TxTMM 400 <* G M>
vmfcopy * * f = = g (prodid 5697J08C%TAPEMGR olddate replace
```

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

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

- 4** Copy the general use code to the production disk. Replace TxTMM with TMTMM for RMM Catalog and Dedicated Catalog environments. Replace TxTMM with TCTMM or TRTMM in Shared Catalog environments.

```
access 5697J08C.TAPEMGR.TESTUSER f
vmlink TxTMM 410 <* G M>
vmfcopy * * f = = g (prodid 5697J08C%TAPEMGR olddate replace
```

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

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

- 5** Logon to MAINT $\nu$ rm 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 5697J08C.TAPEMGR.TESTUSER f**  
**vmlink MAINT<sub>vr</sub>m 19E <\* G M>**  
**vmfcopy \* module f = = g2 (prodid 5697J08C%TAPEMGR olddate replace**

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

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

- 6** Logon to MAINT<sub>vr</sub>m if you plan to put Tape Manager help files on the system AMENG Help (MAINT's 19D) disk.

**access 5697J08C.TAPEMGR.TESTUSER f**  
**vmlink MAINT<sub>vr</sub>m 19D <\* G M>**

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

**vmfcopy \* helpaeum f = = g2 (prodid 5697J08C%TAPEMGR olddate replace**  
**vmfcopy aeum helpmenu f = = g2 (prodid 5697J08C%TAPEMGR olddate replace**

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

- 7** If the MAINT<sub>vr</sub>m 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status.

**put2prod savecms**

**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 5697J08C user ID.

**2** Establish the 5697J08C's minidisk order.

**vmfsetup 5697J08C {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 5697J08C {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 5697J08C {TAPEMGR | TAPEMGRSFS} eumblins (serviced**

**6** Issue the assemble command for the file:

**vmfasm eumuim 5697J08C {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 5697J08C {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 5697J08C {TAPEMGR | TAPEMGRSFS} (serviced**

- 10 Place the new local modification into production.

**a** If installing using minidisks

**access 310 f** The VMFCOPY command will update the VMSES  
**access 410 g** PARTCAT file on the 410 disk.  
**vmfcopy DMSTVI MODULE f = = g (prodid 5697J08C%TAPEMGR olddate replace**

**b** If installing using Shared File System

**access 5697J08C.TAPEMGR.TESTUSER f** The VMFCOPY command will update the VMSES  
**vmlink TxTMM 410 <\* G M>** PARTCAT file on the 410 disk.  
**vmfcopy DMSTVI MODULE f = = g (prodid 5697J08C%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 5697J08C \$PPF or 5697J08C PPF files to change the file pool name or any other installation parameters. If the 5697J08C \$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 is an example. The example describes how to change the default file pool name, VMSYS, to

- VMPSFS for all SFS directories that will be shared across a z/VM SSI cluster
- MYPOOL1 for all SFS directories that should be unique on each member of a z/VM SSI cluster. You can also choose to specify VMSYS as the file pool for these SFS directories.

- 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 5697J08C
:DCL. UPDATE
&191 DIR VMPSFS:5697J08C.
&BAS1Z DIR VMPSFS:5697J08C.TAPEMGR.BASE
&SAMPZ DIR VMPSFS:5697J08C.TAPEMGR.SAMPLE
&LMODZ DIR VMPSFS:5697J08C.TAPEMGR.LOCALMOD
&DELTZ DIR VMPSFS:5697J08C.TAPEMGR.DELTA
&APPLX DIR VMPSFS:5697J08C.TAPEMGR.TESTAPPLY
&APPLZ DIR VMPSFS:5697J08C.TAPEMGR.PRODAPPLY
&BLD0Z DIR VMPSFS:5697J08C.TAPEMGR.TESTSRVR
&BLD2Z DIR VMPSFS:5697J08C.TAPEMGR.TESTUSER
&TMM191P DIR MYPPOOL1:TxTMM.
&TMM200P DIR MYPPOOL1:TxTMM.TMM200
&TMM210P DIR MYPPOOL1:TxTMM.TMM210
&DMM191P DIR MYPPOOL1:TxDMM.
&LMM191P DIR MYPPOOL1:TxLM1.
&CMM191P DIR MYPPOOL1:TxCMM.
&RMM191P DIR MYPPOOL1:TxRMM.
:EDCL.
:END.
*

```

(This override will replace the :DCL. section of the tapemgrsfs override area of the 5697J08C \$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.

- 5** Update the VM SYSSUF Software Inventory table. Since you created a PPF override to the 5697J08C \$PPF file you need to make sure that the override name you created is reflected in the PPF tags for Tape Manager in the VM SYSSUF table. Type in the command VMFUPDAT SYSSUF. This will bring up a panel so that you can change the PPF names stored in the VM SYSSUF file. Locate 5697J08C under the 'Prodid' column. Replace the PPF name for INSTPPF, BLDPPF and P2PPPF for 5697J08C with your new PPF override file name. Use PF5 to process your changes.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5697J08C 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

#### Electronic Service (envelope file)

If you have received the service electronically or on DVD, follow the appropriate instructions to retrieve and decompress the envelope files to the MAINT $vr$ m 500 minidisk. 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 *ppfname* used throughout these servicing instructions is **5697J08C**, 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 **5697J08C**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

- 1** Logon to the Tape Manager service user ID: **MAINT $vr$ m**
- 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 command to obtain R/W access to it.

**vmmlink MAINT 51D <51D D M>**

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** Provide the service user ID access to the service envelope.

**vmmlink MAINT***vr*m 500 <\* C RR>

**6** Receive the documentation.

**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.

**7** 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.

**8** Read the product memo (5697J08C MEMO) before going on.

**9** Setup the correct product access order.

**vmfsetup 5697J08C {TAPEMGR | TAPEMGRSFS}**

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

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

**vmfmrdsk 5697J08C {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.

**11** 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 envelope files, you can receive all of the service for this prodid before applying and building it.

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

- 1** Receive the service.

**vmfrec ppf 5697J08C {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 5697J08C {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 **5697J08C**
- *compname* should be **TAPEMGR** or **TAPEMGRSFS** (minidisk or SFS)
- *appid* should be **5697J08C**
- *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 5697J08C {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 5697J08C \$PPF

VMFB LD2185R When source product parameter files are serviced, all product parameter files built from them must be recompiled using VMFPFF 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 VMFPFF. Enter one (1) to continue only if you have already recompiled your product parameter files with VMFPFF.

**0**

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

VMFB LD2188I Building 5697J08C \$PPF  
on 191 (A) from level \$PFnnnnn

**vmfpff 5697J08C \***

**Note:** If you have created your own PPF override then use your PPF name instead of 5697J08C.

**copy 5697J08C \$PPF a = = d (olddate replace  
erase 5697J08C \$PPF a**

**Note:** Do not use your own PPF name in place of 5697J08C for the COPYFILE and ERASE commands.

**vmfbld ppf 5697J08C {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 5697J08C {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 46 to copy the new serviced files into production.

---

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# Reader's Comments

## Tape Manager for z/VM version 1 release 3.0

You may use this form to comment about this document, its organization, or subject matter. Please understand that your feedback is of importance to IBM, but IBM makes no promises to always provide a response to your feedback.

For each of the topics below please indicate your satisfaction level by circling your choice from the rating scale. If a statement does not apply, please circle N.

RATING SCALE						
<b>very satisfied</b>					<b>very dissatisfied</b>	<b>not applicable</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>N</b>	

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

- 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:

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