



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

version 1 release 4.0

Program Number 5697-J10

for Use with  
z/VM version 5 release 4  
z/VM version 6 release 1  
z/VM version 6 release 2

Document Date: November 2012

GI10-8664-09

**Note**

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 60.

This program directory, dated November 2012, applies to Operations Manager for z/VM version 1 release 4 (Operations Manager), Program Number 5697-J10.

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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 Operations 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 Operations Manager.
- 3.0, “Program Support” on page 5 describes the IBM support available for Operations Manager.
- 4.0, “Program and Service Level Information” on page 6 lists the APARs (program level) and PTFs (service level) incorporated into Operations Manager.
- 5.0, “Installation Requirements and Considerations” on page 7 identifies the resources and considerations for installing, migrating, and using Operations Manager.
- 6.0, “Installation Instructions” on page 17 provides detailed installation instructions for Operations Manager.
- 7.0, “Service Instructions” on page 40 provides detailed servicing instructions for Operations Manager.
- Appendix A, “Create Product Parameter File (PPF) Override” on page 50 provides detailed information on overriding the Product Parameter File (PPF).
- Appendix B, “Traditional Service Commands” on page 53 provides alternative instructions for servicing Operations Manager.

Before installing Operations 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

Operations Manager helps improve the monitoring and management of z/VM® virtual machines. By automating routine maintenance tasks and automatically responding to predictable situations that require intervention, Operations Manager allows z/VM system programmers and administrators to focus on more critical tasks.

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for Operations Manager for z/VM version 1 is 5697-J10.

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

The following sections identify:

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

---

### 2.1 Basic Machine-Readable Material

This program is available through the IBM® z/VM® SDO on 3590 or 3592 tape cartridge. 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 tape cartridge or electronic envelope contains all the programs and data needed for installation. See section 6.0, “Installation Instructions” on page 17 for more information about how to install the program. Figure 1 describes the tape cartridge. Figure 2 describes the file content of the program tape cartridge or product envelope.

*Figure 1. Basic Material: Program Tape*

---

<b>Feature Number</b>	<b>Medium</b>	<b>Physical Volume</b>	<b>Tape Content</b>	<b>External Tape Label</b>
5802	3590 cart.	1	Operations Manager V1.4.0	Ops Mgr z/VM V1.4
5802	3592 cart.	1	Operations Manager V1.4.0	Ops Mgr z/VM V1.4

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

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

---

<b>Tape File</b>	<b>Content</b>
1	Tape Header
2	Tape Header
3	Product Header
4	Product Memo
5	Service Apply Lists



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

<b>Tape File</b>	<b>Content</b>
6	PTFPARTs
7	Operations Manager Aux Files
8	Operations Manager Service
9	Operations Manager Server Executable Code
10	Operations Manager User Executable Code
11	Operations Manager Sample/Customization Files
12	Operations Manager Base Files

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## 2.2 Optional Machine-Readable Material

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

---

## 2.3 Program Publications

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

### 2.3.1 Base Program Publications

Figure 3 identifies the program publications for Operations Manager.

Figure 3. Material: Program Publications

<b>Publication Title</b>	<b>Form Number</b>
Operations Manager for z/VM Administration Guide	SC18-9347

### 2.3.2 Softcopy Publicatons

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

[www.ibm.com/software/sysmgmt/zvm/operations/](http://www.ibm.com/software/sysmgmt/zvm/operations/)

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 Operations Manager.

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## 2.5 Publications Useful During Installation

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

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

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

Figure 5. 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 (for z/VM V6.1)</i>	GC24-6232
<i>z/VM: Service Guide (for z/VM V6.2)</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>Operations Manager for z/VM Administration Guide</i>	SC18-9347

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## 3.0 Program Support

This section describes the IBM support available for Operations Manager.

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### 3.1 Preventive Service Planning

Before installing Operations 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 6. PSP Upgrade and Subset ID

---

Retain			
COMPID	Release	Upgrade	Subset
5697J1000	140	OPSZVM140	OPS140

---

### 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 7 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for Operations Manager.

Figure 7. Component IDs

---

Retain			
COMPID	Release	Component Name	FESN
5697J1000	140	Operations Manager V1.4.0	0400008

---

## 4.0 Program and Service Level Information

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

---

### 4.1 Program Level Information

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

PK72568 / UK40086  
PK73592 / UK40633  
PK85970 / UK46451  
PK96966 / UK50454  
PM06671 / UK54225  
PM12977 / UK56409

If you are installing Operations Manager from an SDO dated March 2012 or later, the following Operations Manager V1.4.0 PTFs have already been pre-installed:

PM28019 / UK62815

Check the OPSZVM140 PSP bucket for any additional PTFs that should be installed or any additional install information.

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### 4.2 Cumulative Service Tape

Cumulative service for Operations Manager release 4.0 is available through a monthly corrective service tape, Expanded Service Option, ESO. You need to specify the product ID, 5697J10D, 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 Operations Manager.

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### 5.1 Hardware Requirements

Operations Manager release 4.0 will operate on any hardware that supports the prerequisite software.

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### 5.2 Program Considerations

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

#### 5.2.1 Operating System Requirements

Operations Manager supports the following VM operating systems:

- z/VM version 5 release 4
- z/VM version 6 release 1
- z/VM version 6 release 2

#### 5.2.2 Other Program Product Requirements

The following products are required to use specific functions of Operations Manager:

- An External Security Manager, such as the RACF® Security Server feature for z/VM, is required for:
  - Command level authorization
  - Read versus update access to consoles using VIEWCON
  - Read versus update access to spool files using VIEWSP

#### 5.2.3 Migration Considerations

##### 5.2.3.1 Migrating from Operations Manager V1.3.0

The following changes are required to a system running Operations Manager V1.3.0 in order to run V1.4.0:

1. You must update the CP directory entry for the main Operations Manager server (OPMGRM1, by default.) Add the SHARE option to the XCONFIG ADDRSPACE statement. The updated statement should look like this:

```
XCONFIG ADDRSPACE MAXNUMBER 1022 TOTSIZE 4G SHARE
```

2. You must update the CP directory entries for all action processing servers (OPMGRS1, OPMGRS2, OPMGRS3, and OPMGRS4, by default.)

- Replace the following line:

```
MACHINE ESA
```

with

```
MACHINE XC
```

- Add the following XCONFIG statements:

```
XCONFIG ACCESSLIST ALSIZE 126
```

```
XCONFIG ADDRSPACE MAXNUMBER 126 TOTSIZE 512M SHARE
```

3. You must update the PROFILE EXECs or CP directory entries for the following user IDs to link to the V1.4.0 code on 5697J10D rather than the V1.3.0 code on 5697J10C:

- OPMGRM1
- All OPMGRSn user IDs
- All users and administrators linking to any of the 5697J10C disks

### 5.2.3.2 Migrating from Operations Manager V1.2.0

The following changes are required to a system running Operations Manager V1.2.0 in order to run V1.4.0:

1. The sample GOMDGD4 command is no longer recommended to set or reset the CP alternate user ID for an action processing server. The ALTUSER operand on the DEFACTN statement should be used instead.
2. The TIMER function is no longer supported in V1.4.0. It was previously replaced by a scheduling function: DEFSCHD and DELSCHED. Therefore, the following files should be removed from your Operations Manager installation:
  - All files with filename DEFTIMR
  - All files with filename DELTIMR

These files are typically on the 5697J10B 310 and 2B2 minidisks and only need to be removed if you are still using these disks for V1.4.0. Copies of the files may also exist on the MAINT 19D minidisk or any other shared disk on your system if you copied the help files to another disk during installation.

3. Additional statements are required in the directory entry for user ID OPMGRM1. Refer to the Operations Manager Administration Guide (SC18-9347) for details on the requirement for IUCV \*SPL, OPTION APPLMON, and IUCV \*VMEVENT statements.
4. Any references to the MONITOR operand on the CONFIG, STATUS, SUSPEND, and RESUME commands must be changed to MACHINE. This operand has been changed to more easily distinguish between monitors for virtual machines, monitors for spool space, and monitors for \*VMEVENT. The DEFMMON and DELMMON statements remain unchanged.
5. The format of accounting and monitor collection records has changed. Details are provided in the Operations Manager Administration Guide.

6. You must update the PROFILE EXECs or CP directory entries for the following user IDs to link to the V1.4.0 code on 5697J10D rather than the V1.2.0 code on 5697J10B:
  - OPMGRM1
  - All OPMGRSn user IDs
  - All users and administrators linking to any of the 5697J10B disks
7. You must update the CP directory entry and PROFILE EXEC for user ID OPMGRM1 to link and access the new 198 disk or .CONFIGURATION directory. It is recommended that OPMGRM1 link the disk in RR mode so that other authorized users can link it MR and make changes to the configuration data while OPMGRM1 is running.
8. You must make your Operations Manager configuration file(s) available to user ID OPMGRM1 and any users who require access. All configuration files should now be maintained on the OPMGRM1 198 minidisk or in the *filepool:OPMGRM1.CONFIGURATION* directory.
9. If you have updated GOMCLG EXEC (for log file management on user ID OPMGRM1), move your customized version from the OPMGRM1 191 disk to the OPMGRM1 198 disk.
10. You must update the CP directory entry for the main Operations Manager server (OPMGRM1, by default.) Add the SHARE option to the XCONFIG ADDRSPACE statement. The updated statement should look like this:
 

```
XCONFIG ADDRSPACE MAXNUMBER 1022 TOTSIZE 4G SHARE
```
11. You must update the CP directory entries for all action processing servers (OPMGRS1, OPMGRS2, OPMGRS3, and OPMGRS4, by default.)
  - Replace the following line:
 

```
MACHINE ESA
```

with

```
MACHINE XC
```
  - Add the following XCONFIG statements:
 

```
XCONFIG ACCESSLIST ALSIZE 126
XCONFIG ADDRSPACE MAXNUMBER 126 TOTSIZE 512M SHARE
```

### 5.2.3.3 Migrating from Operations Manager V1.1.0

The following changes are required to a system running Operations Manager V1.1.0 in order to run V1.4.0:

1. The CP directory entry for the user ID OPMGRM1 now requires "OPTION ACCT" to allow it to use DIAG x'4C' and generate accounting records. This statement is only required if you want accounting records to be created.
2. The user ID OPMGRM1 requires the ability to issue CP QUERY OBSERVER and CP QUERY SECUSER. This is typically privilege class A, B, or C, and requires an update to the CP directory entry for OPMGRM1.

3. If you are planning to use OBSERVER instead of SECUSER to monitor consoles, and plan to send commands back to monitored consoles using Operations Manager, then the user ID OPMGRM1 requires the ability to issue CP SEND. This is typically privilege class C, and requires an update to the CP entry directory for OPMGRM1.
4. The TIMER function is no longer supported in V1.4.0. It was previously replaced by a scheduling function: DEFSCHD and DELSCHD. Therefore, the following files should be removed from your Operations Manager installation.
  - All files with filename DEFTIMR
  - All files with filename DELTIMR

These files are typically on the 5697J10A 310 and 2B2 disks and only need to be removed if you are still using these disks for V1.4.0. Copies of the files may also exist on the MAINT 19D minidisk or any other shared disk on your system if you copied the help files to another disk during installation.

5. Additional statements are required in the directory entry for user ID OPMGRM1. Refer to the Operations Manager Administration Guide (SC18-9347) for details on the requirement for IUCV \*SPL, OPTION APPLMON, and IUCV \*VMEVENT statements.
6. Any references to the MONITOR operand on the CONFIG and STATUS commands must be changed to MACHINE. This operand has been changed to more easily distinguish between monitors for virtual machines, monitors for spool space, and monitors for \*VMEVENT. The DEFMMON and DELMMON statements remain unchanged.
7. You must update the PROFILE EXECs or CP directory entries for the following user IDs to link to the V1.4.0 code on 5697J10D rather than the V1.1.0 code on 5697J10A:
  - OPMGRM1
  - All OPMGRSn user IDs
  - All users and administrators linking to any of the 5697J10A disks
8. You must update the CP directory entry and PROFILE EXEC for user ID OPMGRM1 to link and access the new 198 disk or .CONFIGURATION directory. It is recommended that OPMGRM1 link the disk in RR mode so that other authorized users can link it MR and make changes to the configuration data while OPMGRM1 is running.
9. You must make your Operations Manager configuration file(s) available to user ID OPMGRM1 and any users who require access. All configuration files should now be maintained on the OPMGRM1 198 minidisk or in the *filepool*:OPMGRM1.CONFIGURATION directory.
10. You must update the CP directory entry for the main Operations Manager server (OPMGRM1, by default.) Add the SHARE option to the XCONFIG ADDRSPACE statement. The updated statement should look like this:
 

```
XCONFIG ADDRSPACE MAXNUMBER 1022 TOTSIZE 4G SHARE
```
11. You must update the CP directory entries for all action processing servers (OPMGRS1, OPMGRS2, OPMGRS3, and OPMGRS4, by default.)
  - Replace the following line:
 

```
MACHINE ESA
```



with

MACHINE XC

- Add the following XCONFIG statements:

XCONFIG ACCESSLIST ALSIZE 126

XCONFIG ADDRSPACE MAXNUMBER 126 TOTSIZE 512M SHARE

## 5.2.4 Program Installation and Service Considerations

This section describes items that should be considered before you install or service Operations 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 not install and service Operations Manager strictly using the MAINT user ID, but will use a new user ID--5697J10D. This is the IBM suggested user ID name. You are free to change this to any user ID name you wish; however, a PPF override must be created.

**Note:** It may be easier to make the above PPF override change during the installation procedure 6.2, "Plan Your Installation For Operations Manager" step 6 on page 20, rather than after you have installed this product.

- If you are installing on z/VM V6.2 or later, there are several considerations for Single System Image (SSI). Refer to the following web site for more information:  
<http://www.ibm.com/support/search.wss?q=SSI&tc=SSMR76>
- If you are using an External Security Manager (such as IBM RACF Security Server), the following must be permitted:
  - From user ID 5697J10D, LINK MAINT 51D in MR mode
  - From user ID 5697J10D, LINK MAINT 5E5 in RR mode
  - From user ID 5697J10D, LINK OPMGRM1 198 in MR mode
  - If you plan to place Operations Manager general use code on MAINT's 19E disk (the 'Y' disk) or the Operations Manager help files on the system AMENG Help (MAINT's 19D) disk, then one of the following is required:
    - From user ID MAINT or MAINTvrm, LINK 5697J10D 310 in RR mode
    - From user ID MAINT or MAINTvrm, ACCESS 5697J10D.OPMGR.TESTUSER

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

- All LINK statements specified in the sample directory entries for the Operations Manager user IDs. Refer to 5.3, “DASD Storage and User ID Requirements” on page 12 for a list of Operations Manager user IDs.
- Read access to the Operations Manager user code for all user IDs that will issue Operations Manager commands. By default, this code is on the 5697J10D 410 minidisk or in the SFS directory *filepool:5697J10D.OPMGR.PRODUSER*. During product installation you may copy this code to MAINT 19D and MAINT 19E and let users access it from there.

---

## 5.3 DASD Storage and User ID Requirements

Figure 8 lists the user IDs, minidisks and default SFS directory names that are used to install and service Operations Manager.

### Important Installation Notes:

- User ID(s) and minidisks or SFS directories will be defined in 6.2, “Plan Your Installation For Operations Manager” on page 18 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.
- 5697J10D is a default user ID and can be changed. If you choose to change the name of the installation user ID you need to create a Product Parameter Override (PPF) to reflect this change. This can be done in 6.2, “Plan Your Installation For Operations Manager” step 6 on page 20.
- If you choose to install Operations Manager on a common user ID the default minidisk addresses for Operations Manager may already be defined. If any of the default minidisks required by Operations Manager are already in use you will have to create an override to change the default minidisks for Operations Manager so they are unique.

Figure 8 (Page 1 of 4). 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 <sup>(3*)</sup>
5697J10D	191	3390 9345	10 12	14400	1800	5697J10D user ID's 191 minidisk  <i>filepool1:5697J10D.</i>
5697J10D	2B2	3390 9345	5 6	7200	900	Contains all the base code shipped with Operations Manager <i>filepool1:5697J10D.OPMGR.BASE</i>
5697J10D	2C2	3390 9345	2 3	2880	360	Contains sample files <i>filepool1:5697J10D.OPMGR.SAMPLE</i>
5697J10D	2C4	3390 9345	2 3	2880	360	Contains customization files. This disk may also be used for local modifications <i>filepool1:5697J10D.OPMGR.LOCALMOD</i>
5697J10D	2D2	3390 9345	30 36	43200	5400	Contains serviced files  <i>filepool1:5697J10D.OPMGR.DELTA</i>
5697J10D	2A6	3390 9345	2 3	2880	360	Contains AUX files and software inventory tables that represent the test service level of Operations Manager <i>filepool1:5697J10D.OPMGR.TESTAPPLY</i>
5697J10D	2A2	3390 9345	2 3	2880	360	Contains AUX files and software inventory tables that represent the service level of Operations Manager that is currently in production <i>filepool1:5697J10D.OPMGR.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 OPMGRM1 198 disk in the CP directory specify the disk as RR. OPMGRM1 will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while OPMGRM1 is running.
3. The default SFS file pool is VMSYS. If you are installing on z/VM V6.2 or later, 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 8 (Page 2 of 4). 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 <sup>(3*)</sup>
5697J10D	300	3390 9345	5 6	7200	900	Test build disk for server code <i>filepool1:5697J10D.OPMGR.TESTSRVR</i>
5697J10D	400	3390 9345	5 6	7200	900	Production build disk for server code <i>filepool1:5697J10D.OPMGR.PRODSRVR</i>
5697J10D	310	3390 9345	5 6	7200	900	Test build disk for user code <i>filepool1:5697J10D.OPMGR.TESTUSER</i>
5697J10D	410	3390 9345	5 6	7200	900	Production build disk for user code <i>filepool1:5697J10D.OPMGR.PRODUSER</i>
<b>5697J10D Totals</b>		<b>3390 9345</b>	<b>73 90</b>	<b>105,120</b>	<b>13,140</b>	<b>Total DASD storage required for user ID 5697J10D.</b> Use the SFS total for 5697J10D in step 5 on page 25.
OPMGRM1	191	3390 9345	5 6	7200	900	A-disk for server running GOMMAIN  <i>filepool2:OPMGRM1.</i>
OPMGRM1	194	3390 9345	50 60	72000	9000	Log disk for server running GOMMAIN  <i>filepool2:OPMGRM1.LOGS</i>
OPMGRM1	198 <sup>(2*)</sup>	3390 9345	5 6	7200	900	Installation-defined configuration files on production system, based on samples provided on the 2C2 minidisk or in the .SAMPLE directory. <sup>(2*)</sup>  <i>filepool2:OPMGRM1.CONFIGURATION</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 OPMGRM1 198 disk in the CP directory specify the disk as RR. OPMGRM1 will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while OPMGRM1 is running.
3. The default SFS file pool is VMSYS. If you are installing on z/VM V6.2 or later, 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 8 (Page 3 of 4). 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 <sup>(3*)</sup>
<b>OPMGRM1 Totals</b>		3390 9345	60 72	86,400	10,800	<b>Total DASD storage required for user ID OPMGRM1.</b> Use the SFS total for OPMGRM1 in step 5 on page 25.
OPMGRS1	191	3390 9345	5 6	7200	900	A-disk for server 1 running GOMSVM. Use the SFS value for OPMGRS1 in step 5 on page 25.  <i>filepool2:OPMGRS1.</i>
OPMGRS2	191	3390 9345	5 6	7200	900	A-disk for server 2 running GOMSVM. Use the SFS value for OPMGRS2 in step 5 on page 25.  <i>filepool2:OPMGRS2.</i>
OPMGRS3	191	3390 9345	5 6	7200	900	A-disk for server 3 running GOMSVM. Use the SFS value for OPMGRS3 in step 5 on page 25.  <i>filepool2:OPMGRS3.</i>
OPMGRS4	191	3390 9345	5 6	7200	900	A-disk for server 4 running GOMSVM. Use the SFS value for OPMGRS4 in step 5 on page 25.  <i>filepool2:OPMGRS4.</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 OPMGRM1 198 disk in the CP directory specify the disk as RR. OPMGRM1 will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while OPMGRM1 is running.
3. The default SFS file pool is VMSYS. If you are installing on z/VM V6.2 or later, 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 8 (Page 4 of 4). 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 <sup>(3*)</sup>
<b>All user IDs Totals</b>		<b>3390 9345</b>	<b>153 186</b>	<b>220,320</b>	<b>27,540</b>	<b>Total DASD storage required for all Operations 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 OPMGRM1 198 disk in the CP directory specify the disk as RR. OPMGRM1 will then link the disk RR, allowing other authorized users to link the disk MR and make changes to the configuration data while OPMGRM1 is running.
3. The default SFS file pool is VMSYS. If you are installing on z/VM V6.2 or later, 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 Operations 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 Operations 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 Operations 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 Operations Manager using VMSES/E.

- Plan Your Installation

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

- Allocate Resources

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

- Install the Operations Manager Product

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

- Install Service for Operations Manager

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

- Place Operations Manager Files into Production

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

- Perform Post-installation Tasks

Information about file tailoring and initial activation of the program is presented in the Operations Manager Administration Guide (SC18-9347).

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

---

## 6.2 Plan Your Installation For Operations Manager

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

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

### Note

If you are installing Operations Manager from a product envelope file, be sure to place the envelope file on the MAINT`vrm` 500 minidisk if you are installing on z/VM V6.2 or later, or MAINT 500 minidisk if you are installing on z/VM V6.1 or earlier.

To obtain planning information for your environment:

- 1** Log on as Operations 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` if you are installing on z/VM V6.2 or later, or MAINT if you are installing on z/VM V6.1 or earlier.

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

- a** If installing from **tape**, mount the Operations Manager installation tape and attach it to the user ID at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

- b** If installing from a product **envelope** file on z/VM V6.2 or later

**link** MAINT`vrm` 500 500 rr  
**acc** 500 c



**C** If installing from a product **envelope** file on z/VM V6.1 or earlier

```
link MAINT 500 500 rr
acc 500 c
```

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

```
link MAINT 5e5 5e5 rr
access 5e5 b
```

The 5E5 disk contains the VMSES/E code.

**4** Establish write access to the Software Inventory disk.

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

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

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

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

The VMFINS INFO command will perform the following:

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

**a** If installing from **tape**

```
vmfins install info (nomemo)
```

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

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

**vmfins install info (nomemo env *envfilename***

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

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

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

## 6 Obtain resource planning information for Operations Manager.

### Note:

- The product will **not** be loaded by the VMFINS command at this time.
- The default SFS file pool is VMSYS. If you are installing on z/VM V6.2 or later, 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 Operations Manager. For example, you will need to specify your PPF override file name instead of 5697J10D for certain VMSES/E commands.
- If you're not familiar with creating PPF overrides using VMFINS, you should review the "Using the Make Override Panel" section in Chapter 3 of the *VMSES/E Introduction and Reference* before you continue. This same chapter has information about changing the VMSYS file pool name, if you need it.

**a** If installing from **tape**

**vmfins install ppf 5697J10D {OPMGR | OPMGRSFS} (plan nomemo**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** for installing in Shared File System directories.

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

**You can override any of the following:**

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

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

**vmfins install ppf 5697J10D {OPMGR | OPMGRSFS} (plan nomemo env *envfilename***

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

Use **OPMGR** for installing on minidisks or **OPMGRSFS** 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 5697J10D OPMGR
:PRODID 5697J10D%OPMGR?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5697J10D OPMGR :PRODID
5697J10D%OPMGR
VMFREQ1909I 5697J10D PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5697J10D OPMGR :PRODID 5697J10D%OPMGR
has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5697J10D OPMGR
:PRODID 5697J10D%OPMGR
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

## 6.3 Allocate Resources for Installing Operations Manager

### Note

If you are installing on z/VM V6.2 or later, there are several considerations for Single System Image (SSI). Refer to the following web site for more information:  
<http://www.ibm.com/support/search.wss?q=SSI&tc=SSMR76>

Use the planning information in the 5697J10D PLANINFO file, created in the **PLAN** step, to:

- Create the 5697J10D and service virtual machine user directories for minidisk install. Refer to 6.3.1, “Installing Operations Manager on Minidisk” on page 23 for detailed instructions.

**OR**

- Create the 5697J10D and service virtual machine user directories for SFS install. Refer to 6.3.2, “Installing Operations Manager in SFS Directories” on page 24 for detailed instructions.

### 6.3.1 Installing Operations Manager on Minidisk

**1** Obtain the user directories from the 5697J10D PLANINFO file.

**Note:** The user directory entries are located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5697J10D and service virtual machine user IDs. Use the directory entries found in PLANINFO as a model as input to your system directory.

**2** Add the 5697J10D and service virtual machine directory entries to the system directory.

IBM recommends the following user IDs be defined as single configuration users:

- 5697J10D

IBM recommends the following user IDs be defined as multiconfiguration users:

- OPMGRM1
- OPMGRS1
- OPMGRS2
- OPMGRS3
- OPMGRS4

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

**3** Add the MDISK statements to the directory entry for 5697J10D and any service virtual machine you will be using. Use Figure 8 on page 12 to obtain the minidisk requirements.

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

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

**5** Format all minidisks for the 5697J10D user ID and the service virtual machine user IDs. For each user ID, 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, the installation user ID or one of the Operations 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.

**6** Continue with 6.4, "Install Operations Manager" on page 28.

## 6.3.2 Installing Operations Manager in SFS Directories

**1** Obtain the user directory from the 5697J10D PLANINFO file.

**Note:** The user directory entries are located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5697J10D and service virtual machine user IDs. Use the directory entries found in PLANINFO as a model as input to your system directory.

**2** Add the 5697J10D and service virtual machine directory entries to the system directory.

IBM recommends the following user IDs be defined as single configuration users:

- 5697J10D

IBM recommends the following user IDs be defined as multiconfiguration users:

- OPMGRM1
- OPMGRS1
- OPMGRS2
- OPMGRS3
- OPMGRS4

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

- 3** If you intend to use an SFS directory as the work space for the 5697J10D 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 Operations Manager in SFS. Refer to Figure 8 on page 12.

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

If you are installing Operations Manager in a z/VM Single System Image cluster, place the directory on-line 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 Operations Manager SFS directories, the 4K block requirements for the directories are summarized in Figure 8 on page 12.

This information will be used when enrolling the 5697J10D and service virtual machine user IDs in the VMSYS, VMPSFS, or MYPOOL1 file pool.

- b** Enroll user 5697J10D in the appropriate file pools using the ENROLL USER command:

```
ENROLL USER 5697J10D 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. If you are installing on z/VM V6.2 or later, IBM recommends using a unique file pool. For this unique file pool, you can use VMSYS (provided by IBM) or you can create a new unique file pool such as MYPOOL1. If you are installing on z/VM V6.1 or earlier, the default is VMSYS.

**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 the ENROLL USER command for each service machine user ID you plan on using.

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

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

where *filepool* is the name of the file pool. If you are installing on z/VM V6.2 or later, 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. If you are installing on z/VM V6.1 or earlier, the default is VMSYS.

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** Determine if there are enough blocks available in the file pool to install Operations 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 Operations 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.
- e** Create the necessary subdirectories listed in the 5697J10D PLANINFO file using the CREATE DIRECTORY command.

**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. If you are installing on z/VM V6.2 or later, 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. If you are installing on z/VM V6.1 or earlier, the default is VMSYS.

An example of the create command is:

```
create directory filepool:5697J10D.opmgr
create directory filepool:5697J10D.opmgr.base
:
```

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

A complete list of default Operations Manager SFS directories is provided in Figure 8 on page 12.



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

**grant auth filepool:5697J10D.opmgr.prodsrvr to svmlD (read newread**

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

where *filepool* is the name of the file pool. If you are installing on z/VM V6.2 or later, 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. If you are installing on z/VM V6.1 or earlier, the default is VMSYS.

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

- g** If you plan to place Operations Manager general use code on MAINT's or MAINT<sub>vrml</sub>'s 19E disk then you need to give the **MAINT** or **MAINT<sub>vrml</sub>** user ID READ authority to the general-use test build directory, using the GRANT AUTHORITY command. Refer to step 3 on page 35 or 3 on page 38 for more information on placing general use code on MAINT 19E disk.

If installing on z/VM V6.2 or later

**grant auth filepool:5697J10D.opmgr.testuser to MAINT<sub>vrml</sub> (read newread**

where MAINT<sub>vrml</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.

If installing on z/VM V6.1 or earlier

**grant auth filepool:5697J10D.opmgr.testuser to MAINT (read newread**

where *filepool* is the name of the file pool. The default is VMSYS.

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

---

## 6.4 Install Operations Manager

The *ppfname* used throughout these installation instructions is **5697J10D**, which assumes you are using the PPF supplied by IBM for Operations Manager. If you have your own PPF override file for Operations Manager, you should use your file's *ppfname* instead of **5697J10D**. The *ppfname* you use should be used **throughout** the rest of this procedure.

- 1** Logon to the installation user ID **5697J10D**.
- 2** Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks and define a RETRIEVE key.

```
xedit profile exec a
====> input /**/
====> input 'access 5e5 b'
====> input 'access 51d d'
====> input 'cp set pf12 retrieve'
====> file
```

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 PF12 to find, modify, and execute previously executed commands.

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

**profile**

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

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

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

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

- a** If installing from **tape**, mount the Operations Manager installation tape and attach it to the user ID at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.
- b** If installing from a product **envelope** file on z/VM V6.2 or later

```
link MAINTvrm 500 500 rr
acc 500 c
```

- c** If installing from a product **envelope** file on z/VM V6.1 or earlier

```
link MAINT 500 500 rr
acc 500 c
```

## 6 Install Operations 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 (5697J10D), after the **PPF** keyword for the following VMFINS command.
- You may be prompted for additional information during VMFINS INSTALL processing depending on your installation environment. If you're unsure how to respond to a prompt, refer to the "Installing Products with VMFINS" and "Install Scenarios" chapters in the *VMSES/E Introduction and Reference* to decide how to proceed.

- a** If installing from **tape**

```
vmfins install ppf 5697J10D {OPMGR | OPMGRSFS} (nomemo nolink
```

Use **OPMGR** for installing on minidisks or **OPMGRSFS** for installing in Shared File System directories.

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

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

```
vmfins install ppf 5697J10D {OPMGR | OPMGRSFS} (nomemo nolink env envfilename
```

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

Use **OPMGR** for installing on minidisks or **OPMGRSFS** 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 5697J10D OPMGR :PRODID
5697J10D%OPMGR?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5697J10D OPMGR :PRODID 5697J10D%OPMGR
VMFREQ2805I Product :PPF 5697J10D OPMGR :PRODID 5697J10D%OPMGR has passed
requisite checking
VMFINT2603I Installing product :PPF 5697J10D OPMGR :PRODID 5697J10D%OPMGR
VMFSET2760I VMFSETUP processing started for 5697J10D OPMGR
VMFUTL2205I Minidisk|Directory Assignments:
String Mode Stat Vdev Label/Directory
VMFUTL2205I LOCALMOD E R/W 2C4 OPM2C4
VMFUTL2205I LOCALSAM F R/W 2C2 OPM2C2
VMFUTL2205I APPLY G R/W 2A6 OPM2A6
VMFUTL2205I H H R/W 2A2 OPM2A2
VMFUTL2205I DELTA I R/W 2D2 OPM2D2
VMFUTL2205I BUILD0 J R/W 300 OPM300
VMFUTL2205I BUILD2 K R/W 310 OPM310
VMFUTL2205I BASE1 L R/W 2B2 OPM2B2
VMFUTL2205I ----- A R/W 191 OPM191
VMFUTL2205I ----- B R/O 5E5 MNT5E5
VMFUTL2205I ----- C R/W 500 MNT500
VMFUTL2205I ----- D R/W 51D MNT51D
VMFUTL2205I ----- S R/O 190 MNT190
VMFUTL2205I ----- Y/S R/O 19E MNT19E
VMFSET2760I VMFSETUP processing completed successfully
VMFREC2760I VMFREC processing started
VMFREC1852I Volume 1 of 1 of INS ENVELOPE 1000
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) VMFRCALL processing APPLY
VMFRC2159I Loading part(s) to APPLY 2A6 (G)
VMFRC2159I Loaded 1 part(s) to APPLY 2A6 (G)
VMFREC1851I (4 of 8) VMFRCOM processing DELTA
VMFRC2159I Loading 0 part(s) to DELTA 2D2 (I)
VMFREC1851I (5 of 8) VMFRCALL processing SERVER
VMFRC2159I Loading part(s) to BUILD0 300 (J)
VMFRC2159I Loaded 9 part(s) to BUILD0 300 (J)
VMFREC1851I (6 of 8) VMFRCALL processing USER
VMFRC2159I Loading part(s) to BUILD2 310 (K)
VMFRC2159I Loaded 55 part(s) to BUILD2 310 (K)
VMFREC1851I (7 of 8) VMFRCALL processing SAMPLE
VMFRC2159I Loading part(s) to LOCALSAM 2C2 (F)
VMFRC2159I Loaded 12 part(s) to LOCALSAM 2C2 (F)
VMFREC1851I (8 of 8) VMFRCALL processing BASE
VMFRC2159I Loading part(s) to BASE1 2B2 (L)
VMFRC2159I Loaded 77 part(s) to BASE1 2B2 (L)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully

```

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

**vmfview install**

## 6.4.1 Update Build Status Table for Operations Manager

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

**vmfins build ppf 5697J10D {OPMGR | OPMGRSFS} (serviced nolink**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** for installing in Shared File System directories.

The SERVICED option will build any parts that were not built on the installation tape (if any) and update the Software Inventory build status table showing that the product 5697J10D has been built.

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

**vmfview install**

---

## 6.5 Install Service for Operations Manager

Follow the instructions in 7.2, “Servicing Operations Manager” on page 41 to apply any available PTFs for Operations Manager. You can then continue with the service instructions in 7.3, “Place the New Operations Manager Service Into Production” on page 43 or follow the steps below in 6.6, “Place Operations Manager Into Production” on page 33 to place Operations Manager into production.

---

## 6.6 Place Operations Manager Into Production

If you are installing on z/VM V6.2 or later, and are using minidisks, follow the steps in 6.6.1, “Copy Operations Manager Files Into Production on z/VM V6.2 or Later Using Minidisks” and then go to 6.7, “Post-Installation Considerations” on page 39.

If you are installing on z/VM V6.2 or later, and are using Shared File System, follow the steps in 6.6.2, “Copy Operations Manager Files Into Production on z/VM V6.2 or Later Using Shared File System” on page 35 and then go to 6.7, “Post-Installation Considerations” on page 39.

If you are installing on z/VM V6.1 or earlier, and are using minidisks, follow the steps in 6.6.3, “Copy Operations Manager Files Into Production on z/VM V6.1 or Earlier Using Minidisks” on page 36 and then go to 6.7, “Post-Installation Considerations” on page 39.

If you are installing on z/VM V6.1 or earlier, and are using Shared File System, follow the steps in 6.6.4, “Copy Operations Manager Files Into Production on z/VM V6.1 or Earlier Using Shared File System” on page 38 and then go to 6.7, “Post-Installation Considerations” on page 39.

### 6.6.1 Copy Operations Manager Files Into Production on z/VM V6.2 or Later Using Minidisks

- 1** Logon to 5697J10D and move the Operations Manager Service Machine executables to the production disk.

**access 300 e**

The VMFCOPY command will update the VMSES

**access 400 f**

PARTCAT file on the 400 disk.

**vmfcopy \* \* e = f (prodid 5697J10D%OPMGR olddate replace**

- 2** Logon to 5697J10D to move the general use code and help files to the production disk.

**access 310 e**

The VMFCOPY command will update the VMSES

**access 410 f**

PARTCAT file on the 410 disk.

**vmfcopy \* \* e = f (prodid 5697J10D%OPMGR olddate replace**

- 3** Logon to MAINT*vr*m on each member of a cluster if you plan to put Operations 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 Operations Manager code.

**link 5697J10D 310 310 rr**  
**access 310 e**  
**link MAINT<sub>vrm</sub> 19e 19e mr**  
**access 19e f**

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

**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

- 4** Logon to MAINT<sub>vrm</sub> on each member of a cluster if you plan to put Operations Manager help files on the system AMENG Help (MAINT<sub>vrm</sub>'s 19D) disk.

**link 5697J10D 310 310 rr**  
**access 310 e**  
**link MAINT<sub>vrm</sub> 19d 19d mr**  
**access 19d f**

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

**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

- 5** 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. Perform this step on each member of a cluster.

#### **put2prod savecms**

- 6** If you are installing on z/VM V6.3, skip this step.  
If you are installing on z/VM V6.2 and the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Operations Manager's help files from the AMENG Help (MAINT's 19D) disk. Perform this step on each member of a cluster.

#### **put2prod segments helpseg**

- 7** Continue with 6.7, "Post-Installation Considerations" on page 39.



## 6.6.2 Copy Operations Manager Files Into Production on z/VM V6.2 or Later Using Shared File System

- 1 Logon to 5697J10D and move the Operations Manager Service Machine executables to the production disk.

**access 5697J10D.OPMGR.TESTSRVR e**                      The VMFCOPY command will update the VMSES  
**access 5697J10D.OPMGR.PRODSRVR f**                      PARTCAT file in the PRODSRVR directory.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

- 2 Logon to 5697J10D to move the general use code and help files to the production disk.

**access 5697J10D.OPMGR.TESTUSER e**                      The VMFCOPY command will update the VMSES  
**access 5697J10D.OPMGR.PRODUSER f**                      PARTCAT file in the PRODUSER directory.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

- 3 Logon to MAINT $vrm$  on each member of a cluster if you plan to put Operations 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 Operations Manager code.

**access 5697J10D.OPMGR.TESTUSER e**                      The VMFCOPY command will update the VMSES  
**link MAINT $vrm$  19e 19e mr**                                      PARTCAT file on the 19E disk.  
**access 19e f**  
**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

- 4 Logon to MAINT $vrm$  on each member of a cluster if you plan to put Operations Manager help files on the system AMENG Help (MAINT's 19D) disk.

**access 5697J10D.OPMGR.TESTUSER e**  
**link MAINT<sub>vr</sub>m 19d 19d mr**  
**access 19d f**

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

**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

- 5** 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.  
Perform this step on each member of a cluster.

**put2prod savecms**

- 6** If you are installing on z/VM V6.3, skip this step.  
If you are installing on z/VM V6.2 and the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Operations Manager's help files from the AMENG Help (MAINT's 19D) disk.  
Perform this step on each member of a cluster.

**put2prod segments helpseg**

- 7** Continue with 6.7, "Post-Installation Considerations" on page 39.

### **6.6.3 Copy Operations Manager Files Into Production on z/VM V6.1 or Earlier Using Minidisks**

- 1** Logon to 5697J10D and move the Operations Manager Service Machine executables to the production disk.

**access 300 e**  
**access 400 f**  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

- 2** Logon to 5697J10D to move the general use code and help files to the production disk.

**access 310 e** The VMFCOPY command will update the VMSES  
**access 410 f** PARTCAT file on the 410 disk.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

- 3** Logon to MAINT if you plan to put Operations 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 Operations Manager code.

**link 5697J10D 310 310 rr** The VMFCOPY command will update the VMSES  
**access 310 e** PARTCAT file on the 19E disk.  
**access 19e f**  
**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

**link 5697J10D 310 310 rr** The VMFCOPY command will update the VMSES  
**access 310 e** PARTCAT file on the AMENG Help (MAINT 19D)  
**access 19d f** disk.  
**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

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

- 7** Continue with 6.7, "Post-Installation Considerations" on page 39.

## 6.6.4 Copy Operations Manager Files Into Production on z/VM V6.1 or Earlier Using Shared File System

- 1 Logon to 5697J10D and move the Operations Manager Service Machine executables to the production disk.

**access 5697J10D.OPMGR.TESTSRVR e**                      The VMFCOPY command will update the VMSES  
**access 5697J10D.OPMGR.PRODSRVR f**                      PARTCAT file in the PRODSRVR directory.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

- 2 Logon to 5697J10D to move the general use code and help files to the production disk.

**access 5697J10D.OPMGR.TESTUSER e**                      The VMFCOPY command will update the VMSES  
**access 5697J10D.OPMGR.PRODUSER f**                      PARTCAT file in the PRODUSER directory.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

- 3 Logon to MAINT if you plan to put Operations 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 Operations Manager code.

**access 5697J10D.OPMGR.TESTUSER e**                      The VMFCOPY command will update the VMSES  
**access 19e f**    PARTCAT file on the 19E disk.  
**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

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

**access 5697J10D.OPMGR.TESTUSER e**  
**access 19d f**

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

**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

- 5** If the MAINT 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how to save the CMS saved system.
- 6** If the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Operations Manager's help files from the AMENG Help (MAINT's 19D) disk. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use ( **all** instead of ( **serviced** on the VMSES/E VMFBLD command when re-building any segments.)
- 7** Continue with 6.7, "Post-Installation Considerations."

---

## 6.7 Post-Installation Considerations

Post-installation information is contained in the Operations Manager Administration Guide (SC18-9347). In order to use Operations Manager, perform the steps required for file tailoring and initial activation of the program, as described in the Administration Guide.

**Operations 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 Operations Manager. VMSES/E is used to install service for Operations 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 Operations 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 Operations Manager

### Electronic Service (envelope file)

If you have received the service electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompress the envelope files to the MAINT`vrm` 500 minidisk if you are installing on z/VM V6.2 or later, or the MAINT 500 minidisk if you are installing on z/VM V6.1 or earlier. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

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

The preferred method for installing service to z/VM products is to use the automated SERVICE command. The SERVICE command automates issuing the VMFREC, VMFAPPLY and VMFBLD commands. It can be used for Operations Manager after the product information for Operations 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 B, “Traditional Service Commands” on page 53.

### 7.2.1 Automated Service Commands

- 1 Logon to the Operations Manager service user ID
  - If installing on z/VM V6.2 or later, logon to **MAINT`vrm`**
  - If installing on z/VM V6.1 or earlier, logon to **5697J10D**
- 2 As a precaution, create a backup copy of the current Operations Manager disks or SFS directories. Save this copy of Operations Manager until you have completed installing the service and you are confident that the service runs correctly.
- 3 If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.  
**Note:** If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

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

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

- 4 Add Operations 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 If installing from tape, have the Operations Manager CORrective service tape mounted and attached to **5697J10D** or MAINT*vrrm* as 181.

- 6 If installing from a product **envelope** file on z/VM V6.2 or later

**acc 500 c**

- 7 If installing from a product **envelope** file on z/VM V6.1 or earlier

**link MAINT 500 500 rr**  
**acc 500 c**

- 8 If you are servicing from an envelope file you need to receive any memos from the documentation envelope file and review them. You skip this step if you have a service tape as the memos will be loaded down during SERVICE execution against the tape.

**service {5697J10D%opmgr | 5697J10D%opmgrsfs} docenvfn**  
**vmfupdat systememo**

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

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

- 9 Receive, Apply and Build the service

- a** If servicing from tape

**service {5697J10D%opmgr | 5697J10D%opmgrsfs}**

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

- b** If servicing from an envelope file



**service {5697J10D%opmgr | 5697J10D%opmgrsfs} *envfilename***

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

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

- 10** 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**

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

#### **vmfupdat sysmemo**

- 12** Continue with 7.3, “Place the New Operations Manager Service Into Production” to copy the new serviced files into production.

---

## **7.3 Place the New Operations Manager Service Into Production**

If you installed the product on z/VM V6.2 or later, and are using minidisks, follow the steps in 7.3.1, “Copy the New Operations Manager Serviced Files Into Production on z/VM V6.2 or Later Using Minidisks” on page 44.

If you installed the product on z/VM V6.2 or later, and are using Shared File System, follow the steps in 7.3.2, “Copy the New Operations Manager Serviced Files Into Production on z/VM V6.2 or Later Using Shared File System” on page 45.

If you installed the product on z/VM V6.1 or earlier, and are using minidisks, follow the steps in 7.3.3, “Copy the New Operations Manager Serviced Files Into Production on z/VM V6.1 or Earlier Using Minidisks” on page 47.

If you installed the product on z/VM V6.1 or earlier, and are using Shared File System, follow the steps in 7.3.4, “Copy the New Operations Manager Serviced Files Into Production on z/VM V6.1 or Earlier Using Shared File System” on page 48.

### 7.3.1 Copy the New Operations Manager Serviced Files Into Production on z/VM V6.2 or Later Using Minidisks

- 1 Logon to 5697J10D to move the Operations Manager Service Machine executables to the production disk.

**access 300 e** The VMFCOPY command will update the VMSES  
**access 400 f** PARTCAT file on the 400 disk.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

- 2 Logon to 5697J10D to move the general use code and help files to the production disk.

**access 310 e** The VMFCOPY command will update the VMSES  
**access 410 f** PARTCAT file on the 410 disk.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

- 3 Logon to MAINT<sub>vrm</sub> on each member of a cluster if you plan to put Operations 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 Operations Manager code.

**link 5697J10D 310 310 rr** The VMFCOPY command will update the VMSES  
**access 310 e** PARTCAT file on the 19E disk.  
**link MAINT<sub>vrm</sub> 19e 19e mr**  
**access 19e f**  
**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

- 4 Logon to MAINT<sub>vrm</sub> on each member of a cluster if you plan to put Operations Manager help files on the system AMENG Help (MAINT's 19D) disk.

**link 5697J10D 310 310 rr** The VMFCOPY command will update the VMSES  
**access 310 e** PARTCAT file on the AMENG Help (MAINT 19D)  
**link MAINT<sub>vrm</sub> 19d 19d mr** disk.  
**access 19d f**  
**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

- 5 If the MAINT<sub>vrn</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.

Perform this step on each member of a cluster.

**put2prod savecms**

- 6 If you are installing on z/VM V6.3, skip this step.

If you are installing on z/VM V6.2 and the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Operations Manager's help files from the AMENG Help (MAINT's 19D) disk.

Perform this step on each member of a cluster.

**put2prod segments helpseg**

**You have finished servicing Operations Manager.**

### 7.3.2 Copy the New Operations Manager Serviced Files Into Production on z/VM V6.2 or Later Using Shared File System

- 1 Logon to 5697J10D to move the Operations Manager Service Machine executables to the production disk.

**access 5697J10D.OPMGR.TESTSRVR e**

**access 5697J10D.OPMGR.PRODSRVR f**

**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

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

- 2 Logon to 5697J10D to move the general use code to the production disk.

**access 5697J10D.OPMGR.TESTUSER e**

**access 5697J10D.OPMGR.PRODUSER f**

**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

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

- 3 Logon to MAINT<sub>vrm</sub> on each member of a cluster if you plan to put Operations 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 Operations Manager code.

**access 5697J10D.OPMGR.TESTUSER e**  
**link MAINT<sub>vrm</sub> 19e 19e mr**  
**access 19e f**

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

**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

- 4 Logon to MAINT<sub>vrm</sub> on each member of a cluster if you plan to put Operations Manager help files on the system AMENG Help (MAINT's 19D) disk.

**access 5697J10D.OPMGR.TESTUSER e**  
**link MAINT<sub>vrm</sub> 19d 19d mr**  
**access 19d f**

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

**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

- 5 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.  
Perform this step on each member of a cluster.

**put2prod savecms**

- 6 If you are installing on z/VM V6.3, skip this step.  
If you are installing on z/VM V6.2 and the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Operations Manager's help files from the AMENG Help (MAINT's 19D) disk.  
Perform this step on each member of a cluster.

put2prod segments helpseg

**You have finished servicing Operations Manager.**

### 7.3.3 Copy the New Operations Manager Serviced Files Into Production on z/VM V6.1 or Earlier Using Minidisks

- 1** Logon to 5697J10D to move the Operations Manager Service Machine executables to the production disk.

**access 300 e** The VMFCOPY command will update the VMSES  
**access 400 f** PARTCAT file on the 400 disk.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

- 2** Logon to 5697J10D to move the general use code and help files to the production disk.

**access 310 e** The VMFCOPY command will update the VMSES  
**access 410 f** PARTCAT file on the 410 disk.  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

- 3** Logon to MAINT if you plan to put Operations 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 Operations Manager code.

**link 5697J10D 310 310 rr** The VMFCOPY command will update the VMSES  
**access 310 e** PARTCAT file on the 19E disk.  
**access 19e f**  
**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

**link 5697J10D 310 310 rr** The VMFCOPY command will update the VMSES  
**access 310 e** PARTCAT file on the AMENG Help (MAINT 19D)  
**access 19d f** disk.  
**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

**You have finished servicing Operations Manager.**

### 7.3.4 Copy the New Operations Manager Serviced Files Into Production on z/VM V6.1 or Earlier Using Shared File System

- 1 Logon to 5697J10D to move the Operations Manager Service Machine executables to the production disk.

**access 5697J10D.OPMGR.TESTSRVR e**  
**access 5697J10D.OPMGR.PRODSRVR f**  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

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

- 2 Logon to 5697J10D to move the general use code to the production disk.

**access 5697J10D.OPMGR.TESTUSER e**  
**access 5697J10D.OPMGR.PRODUSER f**  
**vmfcopy \* \* e = = f (prodid 5697J10D%OPMGR olddate replace**

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

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

- 3 Logon to MAINT if you plan to put Operations 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 Operations Manager code.

**access 5697J10D.OPMGR.TESTUSER e**  
**access 19e f**

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

**vmfcopy \* module e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* text e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy \* exec e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

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

**access 5697J10D.OPMGR.TESTUSER e**  
**access 19d f**

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

**vmfcopy \* helpagom e = = f2 (prodid 5697J10D%OPMGR olddate replace**  
**vmfcopy agom\* helpmenu e = = f2 (prodid 5697J10D%OPMGR olddate replace**

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

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

**You have finished servicing Operations Manager.**

---

## Appendix A. 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 Operations Manager files reside.

**Note:** Do **not** modify the product supplied 5697J10D \$PPF or 5697J10D PPF files to change the file pool name or any other installation parameters. If the 5697J10D \$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 values shown can be useful to to customers installing on z/VM V6.2 or later. 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 V6.2 or later cluster
- MYPOOL1 for all SFS directories that should be unique on each member of a z/VM V6.2 or later 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 'myopmgr') 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 opmgrsfs override area, so that it resembles the :DCL. section shown below. This override will be used for the installation of Operations Manager. Modifications needed are denoted in **bold** print.

```

:OVERLST. OPMGRSFS
*
* ===== *
* Override Section for Initial Installation (Using SFS Directories) *
* ===== *
:OPMGRSFS. OPMGRSFS 5697J10D
:DCL. UPDATE
&191      DIR VMPSFS:5697J10D.
&BAS1Z    DIR VMPSFS:5697J10D.OPMGR.BASE
&SAMPZ    DIR VMPSFS:5697J10D.OPMGR.SAMPLE
&LMODZ    DIR VMPSFS:5697J10D.OPMGR.LOCALMOD
&DELTZ    DIR VMPSFS:5697J10D.OPMGR.DELTA
&APPLX    DIR VMPSFS:5697J10D.OPMGR.TESTAPPLY
&APPLZ    DIR VMPSFS:5697J10D.OPMGR.PRODAPPLY
&BLD0Z    DIR VMPSFS:5697J10D.OPMGR.TESTSRVR
&BLD1Z    DIR VMPSFS:5697J10D.OPMGR.PRODSRVR
&BLD2Z    DIR VMPSFS:5697J10D.OPMGR.TESTUSER
&BLD3Z    DIR VMPSFS:5697J10D.OPMGR.PRODUSER
&GMM191P  DIR MYPPOOL1:OPMGRM1.
&GMM194P  DIR MYPPOOL1:OPMGRM1.LOGS
&GMM198P  DIR MYPPOOL1:OPMGRM1.CONFIGURATION
&GS1191P  DIR MYPPOOL1:OPMGRS1.
&GS2191P  DIR MYPPOOL1:OPMGRS2.
&GS3191P  DIR MYPPOOL1:OPMGRS3.
&GS4191P  DIR MYPPOOL1:OPMGRS4.
:EDCL.
:END.
*

```

(This override will replace the :DCL. section of the opmgrsfs override area of the 5697J10D \$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* **OPMGRSFS**

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 5697J10D \$PPF file you need to make sure that the override name you created is reflected in the PPF tags for Operations 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 5697J10D under the 'Prodid' column. Replace the PPF name for INSTPPF, BLDPPF and P2PPPF for 5697J10D 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 5697J10D as the PPF name to be used for those VMSES/E commands that require a PPF name.

---

## Appendix B. Traditional Service Commands

### B.1.1.1 Prepare to Receive Service

#### Electronic Service (envelope file)

If you have received the service electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompress the envelope files to the MAINT $vrm$  500 minidisk if you are installing on z/VM V6.2 or later, or the MAINT 500 minidisk if you are installing on z/VM V6.1 or earlier. 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 **5697J10D**, which assumes you are using the PPF supplied by IBM for Operations Manager. If you have your own PPF override file for Operations Manager, you should use your file's *ppfname* instead of **5697J10D**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

- 1** Logon to the Operations Manager service user ID
  - If installing on z/VM V6.2 or later, logon to **MAINT $vrm$**
  - If installing on z/VM V6.1 or earlier, logon to **5697J10D**
- 2** As a precaution, create a backup copy of the current Operations Manager disks or SFS directories. Save this copy of Operations Manager until you have completed installing the service and you are confident that the service runs correctly.
- 3** If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.  
**Note:** If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

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

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

- 4 Add Operations 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 If installing from tape, have the Operations Manager CORrective service tape mounted and attached to **5697J10D** or MAINT`vr`m as 181.

- 6 If installing from a product **envelope** file on z/VM V6.2 or later

**link MAINT`vr`m 500 500 rr**  
**acc 500 c**

- 7 If installing from a product **envelope** file on z/VM V6.1 or earlier

**link MAINT 500 500 rr**  
**acc 500 c**

- 8 Receive the documentation.

- a If receiving the service from tape

**vmfrec info**

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

- b If receiving the service from an envelope file

**vmfrec info (env `docenvfn`)**

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

- 9 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.

**10** Read the product memo (5697J10D MEMO) before going on.

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

**vmfsetup 5697J10D {OPMGR | OPMGRSFS}**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** for installing in Shared File System directories.

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

**vmfmrdsk 5697J10D {OPMGR | OPMGRSFS} apply**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** for installing in Shared File System directories.

This command clears the alternate APPLY disk.

**13** 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**

### **B.1.1.2 Receive the Service**

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

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

**1** Receive the service.

**a** If receiving the service from tape

**vmfrec ppf 5697J10D {OPMGR | OPMGRSFS}**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** for installing in Shared File System directories.

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

**b** If receiving the service from the PTF envelope file

**vmfrec ppf 5697J10D {OPMGR | OPMGRSFS} (env envfilename**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** 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**

### **B.1.1.3 Apply the Service**

- 1** Apply the new service.

**vmfapply ppf 5697J10D {OPMGR | OPMGRSFS}**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** 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 Operations 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 **5697J10D**
- *compname* should be **OPMGR** or **OPMGRSFS** (minidisk or SFS)
- *appid* should be **5697J10D**
- *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 B.1.1.4, "Update the Build Status Table" on page 57.

### B.1.1.4 Update the Build Status Table

- 1 Update the Build Status Table with serviced parts.

**vmfbld ppf 5697J10D {OPMGR | OPMGRSFS} (status**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** 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:

```
VMFBLD2185R The following source product parameter files have been
serviced:
VMFBLD2185R 5697J10D $PPF
VMFBLD2185R When source product parameter files are serviced, all
product parameter files built from them must be recompiled
using VMFPPF before VMFBLD can be run.
VMFBLD2185R Enter zero (0) to have the latest level of the source product
parameter files copied to your A-disk and exit VMFBLD so
you can recompile your product parameter files with VMFPPF.
Enter one (1) to continue only if you have already
recompiled your product parameter files with VMFPPF.
```

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

```
VMFBLD2188I Building 5697J10D $PPF
on 191 (A) from level $PFnnnnn
```

**vmfppf 5697J10D \***

**Note:** If you have created your own PPF override then use your PPF name instead of 5697J10D.

**copy 5697J10D \$PPF a = = d (olddate replace  
erase 5697J10D \$PPF a**

**Note:** Do not use your own PPF name in place of 5697J10D for the COPYFILE and ERASE commands.

**vmfbl d ppf 5697J10D {OPMGR | OPMGRSFS} (status**

**1**

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

Use **OPMGR** for installing on minidisks or **OPMGRSFS** 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**

### **B.1.1.5 Build Serviced Objects**

- 1** Rebuild Operations Manager serviced parts.

**vmfbld ppf 5697J10D {OPMGR | OPMGRSFS} (serviced**

Use **OPMGR** for installing on minidisks or **OPMGRSFS** 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 Operations Manager Service Into Production” on page 43 to copy the new serviced files into production.

---

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# Reader's Comments

## Operations Manager for z/VM version 1 release 4

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

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

- Independent
- Package

What type of package was ordered?

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- Other - Please specify type: \_\_\_\_\_

- Is this the first time your organization has installed this product?
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  - 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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Please send the completed form to the following address, or give to your IBM representative who will forward it to the Operations Manager for z/VM Development group:

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