Program Directory for

NTuneMON

Version 3 Release 1

Program Number 5648-D72

for Use with
VM/ESA

Document Date: July 2000

GI10-6610-01

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  ┌─── Note ────────────────────────────────────────────────────────────────┐
  │                                                                          │
  │  Before using this information and the product it supports, be sure to read the general information under "Notices" on page vi. │
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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 NTuneMON V3R1 VM. 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 NTuneMON V3R1 VM.

3.0, "Program Support" on page 5 describes the IBM support available for NTuneMON V3R1 VM.

4.0, "Program and Service Level Information" on page 6 lists the APARs (program level) and PTFs (service level) incorporated into NTuneMON V3R1 VM.

5.0, "Installation Requirements and Considerations" on page 7 identifies the resources and considerations for installing and using NTuneMON V3R1 VM.

6.0, "Installation Instructions" on page 13 provides detailed installation instructions for NTuneMON V3R1 VM.

7.0, "Service Instructions" on page 31 provides detailed servicing instructions for NTuneMON V3R1 VM.

Appendix A, "Applying an RSU Tape for NTuneMON V3R1 VM" on page 41 provides detailed Recommended Service Upgrade instructions for NTuneMON V3R1 VM.

Appendix B, "Create Product Parameter File (PPF) Override" on page 48 provides detailed information on overriding the Product Parameter File (PPF).

Before installing NTuneMON V3R1 VM, read 3.1, "Preventive Service Planning" on page 5. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

NTuneMON is a monitor that provides assistance in detecting, resolving, and preventing problems.

2.0 Program Materials

An IBM program is identified by a program number. The program number for NTuneMON Version 3 is 5648-D72.

The program announcement material describes the features supported by NTuneMON V3R1 VM. 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

The distribution medium for this program is 9-track magnetic tape (written at 6250 BPI), 3480 cartridge, or 4mm cartridge. The tape or cartridge contains all the programs and data needed for installation. See section 6.0, "Installation Instructions" on page 13 for more information about how to install the program. Figure 1 describes the tape or cartridge. Figure 2 describes the file content of the program tape or cartridge.

Figure 1. Basic Material: Program Tape

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
5841	6250 tape	1	NTuneMON V3R1 VM	NTuneMON V3R1 VM
5842	3480 cart.	1	NTuneMON V3R1 VM	NTuneMON V3R1 VM
5769	4mm cart	1	NTuneMON V3R1 VM	NTuneMON V3R1 VM

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

Tape File	Content
1	Tape Header
2	Tape Header
3	Product Header
4	Product Memo
5	Service Apply Lists
6	PTFPARTs

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

Tape File	Content
7	NTuneMON V3R1 VM Service
8	NTuneMON V3R1 VM Service
9	NTuneMON V3R1 VM Base Code
10	NTuneMON V3R1 VM Executable Code

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for NTuneMON V3R1 VM.

2.3 Program Publications

The following sections identify the basic and optional publications for NTuneMON V3R1 VM.

2.3.1 Basic Program Publications

One copy of the following publication is included when you order the basic materials for NTuneMON V3R1 VM. For additional copies, contact your IBM representative.

Figure 3. Basic Material: Licensed Publications

Publication Title	Form Number
NTuneMON Licensed Program Specifications	GC31-6267
NTuneMON User's Guide	SC31-6266
NTuneNCP Feature Reference	LY43-0039
NCP & 3745/46 Today	G325-3426

2.3.2 Softcopy Publications

All NTuneMON V3R1 VM manuals, licensed and unlicensed, except for *NTuneMON Licensed Program Specifications*, are offered in displayable softcopy form on the media listed in Figure 4. The first copy is available at no charge to licensees of the basic materials by ordering the 7xxx feature number. Order additional copies using the 8xxx feature number. A fee is charged for additional copies.

An asterisk (*) beside the Form Number indicates that it contains "Restricted Materials of IBM".

Figure 4. Softcopy Publications

Publication Title	Form Number	Feature Number
ACF/NCP, ACF/SSP, EP, NPSI, and NTuneMON Softcopy Collection Kit CD-ROM	LK2T-0414*	7110-8110

2.4 Microfiche Support

There is no microfiche for NTuneMON V3R1 VM.

2.5 Publications Useful During Installation

The publications listed in Figure 5 or Figure 6, depending on your VM/ESA release, may be useful during the installation of NTuneMON V3R1 VM. To order copies, contact your IBM representative.

Figure 5. Publications Useful During Installation / Service on VM/ESA Version 2.2.0

Publication Title	Form Number
VM/ESA: VMSES/E Introduction and Reference	SC24-5747
VM/ESA: Service Guide	SC24-5749
VM/ESA: Planning and Administration	SC24-5750
VM/ESA: CMS Command Reference	SC24-5776
VM/ESA: CMS File Pool Planning, Administration, and Operation	SC24-5751
VM/ESA: System Messages and Codes	SC24-5784

Figure 6. Publications Useful During Installation / Service on VM/ESA Version 2.3.0 or higher

Publication Title	Form Number
VM/ESA: VMSES/E Introduction and Reference	GC24-5837
VM/ESA: Service Guide	GC24-5838
VM/ESA: Planning and Administration	SC24-5750
VM/ESA: CMS Command Reference	SC24-5776
VM/ESA: CMS File Pool Planning, Administration, and Operation	SC24-5751
VM/ESA: System Messages and Codes	GC24-5841

3.0 Program Support

This section describes the IBM support available for NTuneMON V3R1 VM.

3.1 Preventive Service Planning

Before installing NTuneMON V3R1 VM, 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 7. PSP Upgrade and Subset ID

COMPID	Retain Release	Upgrade	Subset
5648D7201	310	NTM310	310

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 8 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for NTuneMON V3R1 VM.

Figure 8. Component IDs

COMPID	Retain Release	Component Name	FESN
5648D7201	310	NTuneMON V3R1 VM	0407179

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of NTuneMON V3R1 VM. 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

No APARs have been incorporated into NTuneMON V3R1 VM.

4.2 Service Level Information

The service level refers to the PTFs shipped with NTuneMON V3R1 VM.

Check the NTM310 PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service Tape

Cumulative service for NTuneMON V3R1 VM is available through a monthly corrective service tape, Expanded Service Option, ESO.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating NTuneMON V3R1 VM.

5.1 Hardware Requirements

There are no special hardware requirements for NTuneMON V3R1 VM.

5.2 Program Considerations

The following sections list the programming considerations for installing NTuneMON V3R1 VM and activating its functions.

5.2.1 Operating System Requirements

NTuneMON V3R1 VM supports the following VM operating systems for as long as program services are available for the particular version and release.

VMSES/E on VM/ESA V2R2 or later. Prior to installing NTuneMON V3R1 VM, one of the following must be installed:

- RSU 9904 for VM/ESA 2.2.0 with PTF UM29440
- RSU 9905 for VM/ESA 2.3.0 with PTF UM29441
- RSU 9904 for VM/ESA 2.4.0 with PTF UM29442

5.2.2 Other Program Product Requirements

A platform-dependent BookManager product is required to display softcopy publications on CD-ROM. Limited function DOS, Windows, and OS/2 versions of these products are available on your CD-ROM. For more information or to order full-function releases of these products, or VM or MVS versions, refer to the IBM BookManager home page at **http://booksrv2.raleigh.ibm.com**.

The following sections contain system considerations for NCP, SSP, and VTAM.

5.2.2.1 NCP and SSP

One of the following versions of NCP is required:

NCP V7R1 or later

NCP V6R2

NCP V5R4

NCP V4R3.1

The APARs listed in Figure 9 on page 8 are required in order for NTuneMON to display the queue length for token-ring peripheral lines.

Figure 9. APARs Required to display the queue length for token-ring peripheral lines	
Product Name	**APAR**
NCP V7R8 for VM and MVS	IR42166
NCP V7R8 for VSE	IR42302

The APAR listed in Figure 10 is required in order for NTuneMON to support modification of predefined bridge route for TIC2 subarea stations.

Figure 10. APAR Required to support modification of predefined bridge route for subarea stations	
Product Name	**APAR**
NCP V7R8 for VM and MVS	IR42305
NCP V7R8 for VSE	IR42306
SSP V4R8 for MVS	IR42372
SSP V4R8 for VM	IR42376
SSP V4R8 for VSE	IR42377

The APARs listed in Figure 11 are required in order for NTuneMON to support modification of DYNWIND DW and DWC for TIC3 stations.

Figure 11. APARs Required to support modification of DYNWIND DW and DWC for TIC3 stations	
Product Name	**APAR**
NCP V7R8 for VM and MVS	IR42608
NCP V7R8 for VSE	IR42611
SSP V4R8 for MVS	IR42617
SSP V4R8 VM	IR42618
SSP V4R8 VSE	IR42619

The APARs listed in Figure 12 are required in order for NTuneMON to support NCP internal traces.

Figure 12. APARs Required to support NCP internal traces	
Product Name	**APAR**
NCP V7R8 for VM and MVS	IR42599
NCP V7R8 for VSE	IR42601

The APARs listed in Figure 13 on page 9 are required in order for NTuneMON to display the PLP Piggyback parameter for 3746 Model 900 X.25 lines.

Figure 13. APARs Required to display the PLP Piggyback parameter	
Product Name	**APAR**
NCP V7R8 for VM and MVS	IR42600
NCP V7R8 for VSE	IR42602
SSP V4R8 for MVS	IR42660
SSP V4R8 for VM	IR42662
SSP V4R8 for VSE	IR42663

5.2.2.2 VTAM

The VTAM APARs listed in Figure 14 are required to operate NTuneMON in conjunction with NTuneNCP.

Figure 14. VTAM APARs Required to Operate NTuneMON with NTuneNCP	
Product Name	**APAR**
VTAM V3R4.2 for MVS/ESA	OW01987
VTAM V3R4.1 for MVS/ESA	OW06097
VTAM V3R4.2 for MVS/ESA	OW06755

The VTAM APAR listed in Figure 15 is required if you use spare or redefinable SDLC peripheral lines and want to modify the VTAM USE parameter.

Figure 15. VTAM APAR Required for SDLC Lines to Modify VTAM USE Parameter	
Product Name	**APAR**
VTAM V4R2 for MVS/ESA	OW06708

5.2.2.3 NetView

NetView V2R3 or later with REXX support is required for NTuneMON.

5.2.3 Program Installation and Service Considerations

This section describes items that should be considered before you install or service NTuneMON V3R1 VM.

VMSES/E is required to install and service this product.

If multiple users install and maintain licensed products on your system, there may be a problem getting the necessary access to MAINT's 51D disk. If you find that there is contention for write access

to the 51D disk, you can eliminate it by converting the Software Inventory from minidisk to Shared File System (SFS). See the *VMSES/E Introduction and Reference* manual, section "Changing the Software Inventory to an SFS Directory", for information on how to make this change.

Customers will no longer install and service NTuneMON V3R1 VM strictly using the MAINT user ID, but will use a new user ID--P648D72A. 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 change during the installation procedure 6.2, "Plan Your Installation For NTuneMON V3R1 VM" step 6 on page 15, rather than after you have installed this product.

5.3 DASD Storage and User ID Requirements

Figure 16 lists the user IDs, minidisks and default SFS directory names that are used to install and service NTuneMON V3R1 VM.

Important Installation Notes:

> User ID(s) and minidisks or SFS directories will be defined in 6.2, "Plan Your Installation For NTuneMON V3R1 VM" on page 14 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.

> P648D72A 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 NTuneMON V3R1 VM" step 6 on page 15.

> If you choose to install NTuneMON V3R1 VM on a common user ID the default minidisk addresses for NTuneMON V3R1 VM may already be defined. If any of the default minidisks required by NTuneMON V3R1 VM are already in use you will have to create an override to change the default minidisks for NTuneMON V3R1 VM so they are unique.

Figure 16 (Page 1 of 2). 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**
P648D72A	2B2	3390 3380 9345	16 20 20	24000	3000	Contains all the base code shipped with NTuneMON V3R1 VM **VMSYS:P648D72A.NTUNEMON.OBJECT**
P648D72A	2C2	3390 3380 9345	4 5 4	6000	750	Contains customization files. This disk may also be used for local modifications. **VMSYS:P648D72A.NTUNEMON.SAMPLE**
Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size. &totalsfs. 4K blocks are needed for SFS install.						

| Minidisk owner (user ID) | Default Address | Storage in Cylinders | | FB-512 Blocks | SFS 4K Blocks | Usage |
		DASD	CYLS			Default SFS Directory Name
P648D72A	2D2	3390 3380 9345	34 40 40	48000	6000	Contains serviced files **VMSYS:P648D72A.NTUNEMON.DELTA**
P648D72A	2A6	3390 3380 9345	8 10 10	12000	15000	Contains AUX files and software inventory tables that represent the test service level of NTuneMON V3R1 VM **VMSYS:P648D72A.NTUNEMON.APPLYALT**
P648D72A	2A2	3390 3380 9345	8 10 10	12000	15000	Contains AUX files and software inventory tables that represent the service level of NTuneMON V3R1 VM that is currently in production. **VMSYS:P648D72A.NTUNEMON.APPLYPROD**
P648D72A	400	3390 3380 9345	25 30 30	36000	4500	Test build disk. This code will be copied to a production disk, (e.g. MAINT 19E) so the production disk will also require this amount of free space.
P648D72A	191	3390 3380 9345	25 30 30	36000	4500	P648D72A user ID's 191 minidisk **VMSYS:P648D72A.**

Figure 16 (Page 2 of 2). DASD Storage Requirements for Target Minidisks

Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size. &totalsfs. 4K blocks are needed for SFS install.

5.4 Special Considerations

Following are special considerations for NTuneMON V3R1 VM:

The **ATUNELST NCCFLST** file provided with NTuneMON must be installed. It contains the default values for various NTuneMON parameters and threshold values.

You should make a working copy of the ATUNELST file and save the original as backup. Make all your changes to the working copy. If a problem arises, you still have the original ATUNELST file. It is also recommended that you test your changes before making them permanent.

There is a section in ATUNELST that indicates that no changes should be made below a certain point. If you change anything below this point, you might affect the operation of NTuneMON.

ATUNELST allows you to preset the NTuneMON threshold values. For additional information, refer to the *NTuneMON User's Guide*.

Because NTuneMON uses colors to highlight certain panel fields, you should use a color terminal to take full advantage of the information NTuneMON provides.

In addition, NetView V2R2 users should maximize the amount of virtual memory available to NetView. This may require movement of shared segments. Refer to the *NetView Tuning Guide* for additional guidance on conserving virtual storage for large applications.

6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate NTuneMON V3R1 VM.

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. For more information about the two column format see "Understanding Dialogs with the System" in the *VM/ESA Installation Guide*.

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 NTuneMON V3R1 VM, adapt these instructions as needed for your environment.

Note

The sample console output presented throughout these instructions was produced on a VM/ESA 2.2.0 system. If you're installing NTuneMON V3R1 VM on a different VM/ESA 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 NTuneMON V3R1 VM using VMSES/E.

Plan Your Installation

Use the VMFINS command to load several VMSES/E files from the product tape and to obtain NTuneMON V3R1 VM 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 NTuneMON V3R1 VM.

Install the NTuneMON V3R1 VM Product

Use the VMFINS command to load the NTuneMON V3R1 VM 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.

Perform Post-installation Tasks

Information about file tailoring and initial activation of the program is presented in 6.5, "Post-Installation Considerations (optional)" on page 23.

Place NTuneMON V3R1 VM Files into Production

Once the product files have been tailored and the operation of NTuneMON V3R1 VM is satisfactory, the product files are copied from the test BUILD disk(s) to production BUILD disk(s).

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

6.2 Plan Your Installation For NTuneMON V3R1 VM

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

load the first tape file, containing installation files

generate a 'PLANINFO' file listing

– all user ID and mdisks/SFS directory requirements

– required products

To obtain planning information for your environment:

1 Log on as NTuneMON V3R1 VM installation planner.

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

2 Mount the NTuneMON V3R1 VM 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.

3 Establish read access to the VMSES/E code.

link MAINT 5e5 5e5 rr   The 5E5 disk contains the VMSES/E code.
access 5e5 b

4 Establish write access to the Software Inventory disk.

link MAINT 51d 51d mr   The MAINT 51D disk is where the VMSES/E
access 51d d   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 NTuneMON V3R1 VM product control files to the 51D minidisk.

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.

This 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 tape.

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

6 Obtain resource planning information for NTuneMON V3R1 VM.

Notes:

a. The product will **not** be loaded by the VMFINS command at this time.

vmfins install ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (plan nomemo

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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

Notes:

  a. 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 NTuneMON V3R1 VM. For example, you will need to specify your PPF override file name instead of 5648D72A for certain VMSES/E commands.

  b. 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.

  c. For more information about changing the VMSYS file pool name refer to Chapter 3 in the *VMSES/E Introduction and Reference*.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5648D72A NTUNEMON
          :PRODID. 5648D72A%NTUNEMON?
          Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5648D72A NTUNEMON :PRODID
          5648D72A%NTUNEMON
VMFREQ1909I 5648D72A PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5648D72A NTUNEMON :PRODID 5648D72A%NTUNEMON
         has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5648D72A NTUNEMON
          :PRODID 5648D72A%NTUNEMON
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFINS2760I VMFINS processing completed successfully
```

Note

Complete this step only if you received message VMFREQ2806W.

If you receive the following VMFREQ2806W message, you must do some additional processing.

```
VMFREQ2806W The following requisites for product :PPF 5648D72A NTUNEMON
         :PRODID 5648D72A%NTUNEMON are not satisfied:

    Type          Product       Component     PTF
    ----------    ----------    ----------    ----------
    Requisite     &reqprodnumb.
```

This message indicates that &reqprodid., product &reqprodname. is a pre-requisite product for NTuneMON V3R1 VM. Since &reqprodid. is not in VMSES/E format it will not be in the system inventory. If you're certain &reqprodid. is installed on your system you will need to update the VMSES/E system inventory before proceeding with the install of NTuneMON V3R1 VM. Update the software inventories by issuing the following commands:

vmfsim modify vm sysrecs d tdata :prodid &reqprodid. :PPF &reqprodid. lib :stat received

> VM SYSRECS is the default name of the Receive Status table.

vmfsim modify vm sysapps d tdata :prodid &reqprodid. :PPF &reqprodid. lib :stat applied

> VM SYSAPPS is the default name of the Apply Status table.

vmfsim modify vm sysreqt d tdata :prodid &reqprodid.

> VM SYSREQT is the default name of the Requisite table.

> For additional information about the System Inventory files and the VMFSIM command see the *VMSES/E Introduction and Reference*.

---

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

vmfview install

6.3 Allocate Resources for Installing NTuneMON V3R1 VM

Use the planning information in the 5648D72A PLANINFO file, created in the **PLAN** step, to:

Create the P648D72A user directory for minidisk install

OR

Create the P648D72A user directory for SFS install

6.3.1 Installing NTuneMON V3R1 VM on Minidisk

1 Obtain the user directory from the 5648D72A PLANINFO file.

Note: The user directory entry is 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 P648D72A user ID. Use the directory entry found in PLANINFO as a model as input to your system directory.

2 Add the MDISK statements to the directory entry for P648D72A. Use Figure 16 on page 10 to obtain the minidisk requirements.

3 Add the P648D72A directory entry to the system directory. Change the password for P648D72A from xxxxx to a valid password, in accordance with your security guidelines.

4 Place the new directories on-line using VM/Directory Maintenance (DIRMAINT) or an equivalent CP directory maintenance method.

> **Note**
>
> All minidisks for the P648D72A user ID must be formatted before installing NTuneMON V3R1 VM.

6.3.2 Installing NTuneMON V3R1 VM in SFS Directories

1 Obtain the user directory from the 5648D72A PLANINFO file.

Note: The user directory entry is 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 P648D72A user ID. Use the directory entry found in PLANINFO as a model as input to your system directory.

2 Add the P648D72A directory entry to the system directory. Change the password for P648D72A from xxxxx to a valid password, in accordance with your security guidelines.

3 Place the new directories on-line using VM/Directory Maintenance (DIRMAINT) or an equivalent CP directory maintenance method.

4 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 you plan to use.

If you intend to use all of the default NTuneMON V3R1 VM SFS directories, the 4K block requirements for the directories are summarized in Figure 16 on page 10.

This information will be used when enrolling the user ID, P648D72A, in the VMSYS filepool.

b Enroll user P648D72A in the VMSYS filepool using the ENROLL USER command:

```
ENROLL USER P648D72A VMSYS: (BLOCKS blocks
```

where *blocks* is the number of 4K blocks that you calculated in the previous step.

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

c Determine if there are enough blocks available in the filepool to install NTuneMON V3R1 VM. This information can be obtained from the QUERY FILEPOOL STATUS command. Near the end of the output from this command is a list of minidisks in the filepool and the number of blocks free. If the number of blocks free is smaller than the total 4K blocks needed to install NTuneMON V3R1 VM you will need to add space to the filepool. See the *VM/ESA SFS and CRR Planning, Administration, and Operation* manual for information on adding space to a filepool.

d Create the necessary subdirectories listed in the 5648D72A PLANINFO file using the CREATE DIRECTORY command.

set filepool vmsys:
create directory *dirid*

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

```
create directory vmsys:P648D72A.NTuneMON
create directory vmsys:P648D72A.NTuneMON.object
 :
```

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

A complete list of default NTuneMON V3R1 VM SFS directories is provided in Figure 16 on page 10.

e If you intend to use an SFS directory as the work space for the
P648D72A user ID, include the following IPL control statement in the
P648D72A directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

This will cause CMS to automatically access the P648D72A's top
directory as file mode A.

6.4 Install NTuneMON V3R1 VM

The *ppfname* used throughout these installation instructions is **5648D72A**, which assumes you are using
the PPF supplied by IBM for NTuneMON V3R1 VM. If you have your own PPF override file for
NTuneMON V3R1 VM, you should use your file's *ppfname* instead of **5648D72A**. The *ppfname* you use
should be used **throughout** the rest of this procedure.

1 Logon to the installation user ID **P648D72A**.

2 Create a PROFILE EXEC that will contain the ACCESS commands for
MAINT 5E5 and 51D minidisks.

xedit profile exec a   If either 5E5 or 51D is in a shared file system
===> input /**/   (SFS) then substitute your SFS directory name in
===> input 'access 5e5 b'   the access command.
===> input 'access 51d d'
===> file

3 Run the profile to access MAINT's minidisks.

profile

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

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

link MAINT 51d 51d mr
access 51d d

5 Have the NTuneMON V3R1 VM installation tape mounted and attached to
P648D72A at virtual address 181. The VMFINS EXEC requires the tape
drive to be at virtual address 181.

6 Install NTuneMON V3R1 VM.

Notes:

a. If you've already created a PPF override file, you should specify your override file name, in place of the default PPF name (5648D72A), after the **PPF** keyword for the following VMFINS command.

b. 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 ˮInstalling Products with VMFINSˮ and ˮInstall Scenariosˮ chapters in the *VMSES/E Introduction and Reference* to decide how to proceed.

vmfins install ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (nomemo nolink

> Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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 5648D72A NTUNEMON
            :PRODID. 5648D72A%NTUNEMON?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5648D72A NTUNEMON :PRODID
            5648D72A%NTUNEMON
VMFREQ2805I Product :PPF 5648D72A NTUNEMON :PRODID 5648D72A%NTUNEMON
            has passed requisite checking
VMFINT2603I Installing product :PPF 5648D72A NTUNEMON :PRODID
            5648D72A%NTUNEMON
VMFSET2760I VMFSETUP processing started
VMFUTL2205I Minidisk|Directory Assignments:
            String    Mode  Stat  Vdev  Label/Directory
VMFUTL2205I LOCALSAM  E     R/W   2C2   SES2C2
VMFUTL2205I APPLY     F     R/W   2A6   SES2A6
VMFUTL2205I           G     R/W   2A2   SES2A2
VMFUTL2205I DELTA     H     R/W   2D2   SES2D2
VMFUTL2205I BUILD0    I     R/W   29E   SES29E
VMFUTL2205I BASE1     J     R/W   2B2   SES2B2
VMFUTL2205I --------  A     R/W   191   SES191
VMFUTL2205I --------  B     R/O   5E5   MNT5E5
VMFUTL2205I --------  D     R/W   51D   SES51D
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 TAPE 9400
VMFREC1851I (1 of 7) VMFRCAXL processing AXLIST
VMFRCX2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 7) VMFRCPTF processing PARTLST
VMFRCP2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (3 of 7) VMFRCCOM processing DELTA
VMFRCC2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (4 of 7) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (F)
VMFRCA2159I Loaded 1 part(s) to APPLY 2A6 (F)
VMFREC1851I (5 of 7) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (J)
VMFRCA2159I Loaded 541 part(s) to BASE1 2B2 (J)
VMFREC1851I (6 of 7) VMFRCALL processing SAMPLE
VMFRCA2159I Loading part(s) to LOCALSAM 2C2 (E)
VMFRCA2159I Loaded 9 part(s) to LOCALSAM 2C2 (E)
VMFREC1851I (7 of 7) VMFRCALL processing BUILD
VMFRCA2159I Loading part(s) to BUILD0 29E (I)
VMFRCA2159I Loaded 36 part(s) to BUILD0 29E (I)
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 *VM/ESA: System Messages and Codes*, or use on-line HELP.

6.4.1 Update Build Status Table for NTuneMON V3R1 VM

1 Update the VM SYSBLDS software inventory file for NTuneMON V3R1 VM.

vmfins build ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (serviced nolink

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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 5648D72A 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 *VM/ESA: System Messages and Codes,* or use on-line HELP.

6.5 Post-Installation Considerations (optional)

6.6 Place NTuneMON V3R1 VM Into Production

6.6.1 Define and Build the NTuneMON V3R1 VM Saved Segments Using VMSES/E

It is recommended that segments be built for NTuneMON V3R1 VM. First the segments are defined to the system using the segment mapping tool VMFSGMAP. Once the segments are defined VMFBLD is used to build them.

For more information on using VMSES/E for saved segments, review the chapter, "Using VMSES/E to Define, Build, and Manage Saved Segments" in the *VM/ESA Planning and Administration* manual.

Note: The defining and building of the NTuneMON V3R1 VM saved segments should be performed from the installation user ID. If you move any segments that are currently defined on your system you must ensure that they are rebuilt from the user ID that maintains them.

1 Logon to the installation user ID **P648D72A**.

2 Establish write access to the VMSES/E and software inventory disks.

link MAINT 51d 51d mr
access 51d d

3 Add NTuneMON V3R1 VM segment object definitions to the SEGBLIST
EXC00000 build list.

vmfsgmap segbld esasegs segblist   This command displays a panel for making
segment updates. See Figure 17 on page 25 for
an example of the Segment Map panel that will be
displayed.

```
                         VMFSGMAP - Segment Map                    More: +
                                                          Lines 1 to nn of nn

Meg            000-MB         001-MB         002-MB         003-MB
St Name     Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
M CMS       SYS W-W------------1...............2...............3....!..........
M GCS       SYS W--------------1...............2...............3....!..........

Meg            004-MB         005-MB         006-MB         007-MB
St Name     Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
  CMSPIPES DCS 4...............5...............6...............RRRR-+----------
M GCS       SYS RRRRRRNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN6...............7....!..........
M HLASM     DCS 4...............5...............RRRRRRRRRRRRRRRRR7....!..........

Meg            008-MB         009-MB         00A-MB         00B-MB
St Name     Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
  DOSBAM    SPA 8...............9...............A...............=====--+---------
  CMSBAM    MEM 8...............9...............A...............BRRR.!..........
  CMSDOS    MEM 8...............9...............A...............R....!..........
  CMSVMLIB  DCS RRRRRRRRRRRRRRRR9...............A...............B....!..........
  DOSINST   DCS 8...............R--------------A...............B....!..........

Meg            00C-MB         00D-MB         00E-MB         00F-MB
St Name     Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
  HELPINST DCS RRRRRRRRRRRRRRRRD...............E...............F....!..........
M CMS       SYS C...............D...............RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>

================================ 16-MB Line ================================+========

               010-MB         011-MB         012-MB         013-MB
 F1=Help    F2=Chk Obj  F3=Exit     F4=Chg Obj  F5=File      F6=Save
 F7=Bkwd    F8=Fwd      F9=Retrieve F10=Add Obj F11=Del Obj  F12=Cancel
 ====> _
```

Figure 17. Segment Map panel example.

4 Go to Add Segment Definition panel by pressing PF10.

F10

F10 takes you from the Segment Map panel to the
Add Segment Definition panel. See Figure 18 on
page 26 to see the Add Segment Definition panel
that will be displayed.

```
                          Add Segment Definition
                                                    Lines 1 to nn of nn

     OBJNAME....:   &SEGNAME1.
     DEFPARMS...:
     SPACE......:
     TYPE.......:   SEG
     OBJDESC....:
     OBJINFO....:
     GT_16MB....:   NO
     DISKS......:
     SEGREQ.....:
     PRODID.....:   5648D72A NTUNEMON
     BLDPARMS...:   UNKNOWN




      F1=Help     F2=Get Obj   F3=Exit     F4=Add Line  F5=Map       F6=Chk MEM
      F7=Bkwd     F8=Fwd       F9=Retrieve  F10=Seginfo  F11=Adj MEM  F12=Cancel
     ====>
```

Figure 18. Add Segment Definition panel example.

5 Obtain the NTuneMON V3R1 VM segment definitions from the PRODPART
file by filling in the appropriate fields on the add segment definition panel.

OBJNAME....: **&SEGNAME1.**   Use **NTUNEMON** for building segments from a
PRODID.....: **5648D72A NTUNEMON**   minidisk or **NTUNEMONSFS** for building segments
                                                from SFS directories.

 F10   **F10** will obtain the NTuneMON V3R1 VM segment
                                                information from the 5648D72A PRODPART file.
                                                See Figure 19 on page 27 for the refreshed Add
                                                Segment definition panel that will be displayed.

```
                               Add Segment Definition                More: +
                                                          Lines 1 to nn of nn



        OBJNAME....:  &SEGNAME1.
        DEFPARMS...:  ????-???? ??
        SPACE......:
        TYPE.......:  pseg|seg??
        OBJDESC....:  object_description
        OBJINFO....:  object_information
        GT_16MB....:  YES
        DISKS......:
        SEGREQ.....:
        PRODID.....:  5648D72A NTUNEMON
        BLDPARMS...:  PPF(5648D72A NTUNEMON bldlist_name)
                      PPF(5648D72A NTUNEMON bldlist_name)




    VMFSMD2760I SEGINFO processing completed SUCCESSFULLY

     F1=Help     F2=Get Obj   F3=Exit     F4=Add Line  F5=Map        F6=Chk MEM
     F7=Bkwd     F8=Fwd       F9=Retrieve F10=Seginfo  F11=Adj MEM   F12=Cancel
    ====>
```

Figure 19. Add Segment Definition panel showing the new segments

6 Go back to the Segment Map panel.

F5

F5 will return you to the Segment Map panel. See Figure 20 on page 28 for the refreshed Segment Map panel that will be displayed.

If you have your own PPF override then you need to change the BLDPARMS field to reflect this.

```
                        VMFSGMAP - Segment Map                    More: -
                                                   Lines nn to nn of nn


Meg           000-MB         001-MB         002-MB         003-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
M CMS      SYS W-W------------1..............2...............3.............
M GCS      SYS W--------------1..............2...............3.............

Meg           004-MB         005-MB         006-MB         007-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
  CMSPIPES DCS 4..............5..............6.............RRRRRR----------
M GCS      SYS RRRRRRNNNNNNNNNNNNNNNNNNNNNNNNNN6..............7.............

Meg           008-MB         009-MB         00A-MB         00B-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
  DOSBAM   SPA 8..............9...............-----------====================
  CMSBAM   MEM 8..............9..............A............RRRR.............
  CMSDOS   MEM 8..............9..............A............R................
  ??????   MEM 8.....???????..9.....???????..A...???????.....B...??????....
  ??????   MEM 8.....???????..9.....???????..A...???????.....B...??????....
  CMSVMLIB DCS RRRRRRRRRRRRRRR9..............A...........WB......RRRRRRR
 F1=Help    F2=Chk Obj  F3=Exit     F4=Chg Obj  F5=File      F6=Save
 F7=Bkwd    F8=Fwd      F9=Retrieve F10=Add Obj F11=Del Obj  F12=Cancel
 ====>
```

Figure 20. Segment Map panel with added segments.

7 Save the new information and exit from the Segment Map panel.

F5   **F5** saves all changed information and exits the
                                            map panel.
Ready; T=nn.nn/nn.nn hh:mm:ss

8 Prepare to build the segments.

     a IPL CMS to clear the virtual storage

ipl cms parm clear nosprof instseg no   IPL CMS to clear your virtual machine. This
                                            command bypasses the execution of the system
** DO NOT press <u>ENTER</u> at the VM READ!**   profile (SYSPROF EXEC) and without loading the
                                            installation saved segment (CMSINST).

access (noprof   Bypass the execution of the PROFILE EXEC.

     b Access the VMSES/E code

access 5e5 b

c Establish write access the Software Inventory Disk

link MAINT 51d 51d mr
access 51d d

9 Issue VMFBLD command to build the NTuneMON V3R1 VM segments.

vmfbld ppf segbld esasegs segblist &SEGNAME1. (serviced

> **Note:** If you received the message:
>
> ```
> VMFBDS2003W The SYSTEM SEGID D(51D) file has been changed and must
>             be moved to the S disk.
> ```
>
> then the SYSTEM SEGID file on the CMS system disk (MAINT 190) and
> CMS test system disk (MAINT 490) must be updated. You need to log on to
> your MAINT user ID and copy the SYSTEM SEGID file from the MAINT 51D
> disk to the MAINT 190 and MAINT 490 disks. (The SYSTEM SEGID must
> have a filemode of **2**.)

6.6.2 Copy NTuneMON V3R1 VM Files Into Production

1 Logon to MAINT if you plan to put NTuneMON V3R1 VM 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 NTuneMON V3R1
VM code.

a If installing using minidisks

link P648D72A 29e 29e rr　　　　　　　　The VMFCOPY command will update the VMSES
access 29e e　　　　　　　　　　　　　　PARTCAT file on the &prodbld. disk.
access 19e f
vmfcopy * * e = = f2 (prodid 5648D72A%NTUNEMON olddate replace

b If installing using Shared File System

access P648D72A.NTUNEMON.tbuild e　　　The VMFCOPY command will update the VMSES
access 19e f　　　　　　　　　　　　　　PARTCAT file on the &prodbld. disk.
vmfcopy * * e = = f2 (prodid 5648D72A%NTUNEMON olddate replace

2 Logon to MAINT if you plan to put NTuneMON V3R1 VM help files on the
system AMENG Help (MAINT's 19D) disk.

a If installing using minidisks

```
link P648D72A 29d 29d rr                        The VMFCOPY command will update the VMSES
access 29d e                                    PARTCAT file on the AMENG Help (MAINT 19D)
acc 19d f                                        disk.
vmfcopy * * e = = f (prodid 5648D72A%NTUNEMON olddate replace
```

b If installing using Shared File System

```
access P648D72A.NTUNEMON.thelp e                The VMFCOPY command will update the VMSES
acc 19d f                                        PARTCAT file on the AMENG Help (MAINT 19D)
                                                 disk.
vmfcopy * * e = = f (prodid 5648D72A%NTUNEMON olddate replace
```

3 Re-save 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 *VM/ESA Service Guide* for
detailed information about how to save the CMS saved system.

4 Re-build the CMS HELP logical saved segment, to include NTuneMON V3R1
VM's help files from the AMENG Help (MAINT's 19D) disk. See the "Placing
(Serviced) Components into Production" section of the *VM/ESA 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.)

NTuneMON V3R1 VM is now installed and built on your system.

7.0 Service Instructions

This section of the Program Directory contains the procedure to install CORrective service to NTuneMON V3R1 VM. VMSES/E is used to install service for NTuneMON V3R1 VM.

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 servicing 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 NTuneMON V3R1 VM using VMSES/E.

Setup Environment

Access the software inventory disk. Use VMFSETUP command to establish the correct minidisk access order.

Merge Service

Use the VMFMRDSK command to clear 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 *VM/ESA 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, re-saving the NSS (Named Saved System) or DCSS (Discontiguous Saved Segments), etc.

7.2 Servicing NTuneMON V3R1 VM

7.2.1 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 decompact the envelope file to your A-disk. The decompaction is currently done by using the DETERSE MODULE. The file names of the decompacted files will be of the format:

VLST*num* for the documentation envelope
VPTF*num* for the service envelope

The file type for both of these files must be SERVLINK. You will need to enter the file name on the VMFREC commands that follow.

The *ppfname* used throughout these servicing instructions is **5648D72A**, which assumes you are using the PPF supplied by IBM for NTuneMON V3R1 VM. If you have your own PPF override file for NTuneMON V3R1 VM, you should use your file's *ppfname* instead of **5648D72A**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

1 Logon to NTuneMON V3R1 VM service user ID **P648D72A**

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

3 Have the NTuneMON V3R1 VM CORrective service tape mounted and attached to **P648D72A**. (If you have a SERVLINK file make sure that it is available on the A-disk.)

4 Establish the correct minidisk access order.

vmfsetup 5648D72A {NTUNEMON | NTUNEMONSFS}

5648D72A is the PPF that was shipped with the product. If you have your own PPF override you should substitute your PPF name for 5648D72A.

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

5 Receive the documentation.

    a If receiving the service from tape

vmfrec info

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

    b If receiving the service from an envelope file

vmfrec info (env vlst*num*

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

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

vmfview receive

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

7 Read the product memo (5648D72A MEMO) before going on.

8 Setup the correct product access order.

vmfsetup 5648D72A {NTUNEMON | NTUNEMONSFS}

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

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

vmfmrdsk 5648D72A {NTUNEMON | NTUNEMONSFS} apply

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

This command clears the alternate APPLY disk.

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

vmfview mrd

7.2.2 Receive the Service
Note: If you are installing multiple service tapes, 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 5648D72A {NTUNEMON | NTUNEMONSFS}

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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 5648D72A {NTUNEMON | NTUNEMONSFS} (env vptf*num*

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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 *VM/ESA: System Messages and Codes*, or use on-line HELP.

vmfview receive

7.2.3 Apply the Service

1 Apply the new service.

vmfapply ppf 5648D72A {NTUNEMON | NTUNEMONSFS}

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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 *VM/ESA: System Messages and Codes*, or use on-line HELP.

vmfview apply

7.2.4 Update the Build Status Table

1 Update the Build Status Table with serviced parts.

vmfbld ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (status

> Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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 5648D72A $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 serviced source product
>             parameter files built to your A-disk and exit VMFBLD so
>             you can recompile your product parameter files with VMFPPF.
> VMFBLD2185R 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 5648D72A $PPF
>             on 191 (A) from level $PFnnnnn
> ```
>
> **vmfppf 5648D72A ***   **Note:** If you've created your own PPF
>   override then use your PPF name instead of
>   5648D72A.
>
> **copyfile 5648D72A $PPF a = = d (olddate replace**
> **erase 5648D72A $PPF a**
>
>   **Note:** **Do not** use your own PPF name in
>   place of 5648D72A for the COPYFILE and
>   ERASE commands.
>
> **vmfbld ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (status**
>
> **1**   Re-issue VMFBLD to complete updating the
>   build status table.
>
>   Use **NTUNEMON** for installing on minidisks or
>   **NTUNEMONSFS** 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

7.2.5 Build Serviced Objects

> **1** Rebuild NTuneMON V3R1 VM serviced parts.

vmfbld ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (serviced

> Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** 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 *VM/ESA: System Messages and Codes*, or use on-line HELP.

vmfview build

7.3 Place the New NTuneMON V3R1 VM Service Into Production

7.3.1 Rebuild the Saved Segments

> **1** Prepare to build the segments.

> **a** IPL CMS to clear the virtual storage

ipl cms parm clear nosprof instseg no

IPL CMS to clear your virtual machine. This command bypasses the execution of the system profile (SYSPROF EXEC) and without loading the installation saved segment (CMSINST).

*** DO NOT press <u>ENTER</u> at the VM READ!***

access (noprof

Bypass the execution of the PROFILE EXEC.

> **b** Access the VMSES/E code

access 5e5 b

c Establish write access the Software Inventory Disk

link MAINT 51d 51d mr
access 51d d

2 Re-save the NTuneMON V3R1 VM segments.

vmfbld ppf segbld esasegs segblist &SEGNAME1. (serviced

> **Note:** If you received the message:
>
> ```
> VMFBDS2003W The SYSTEM SEGID D(51D) file has been changed and must
>             be moved to the S disk.
> ```
>
> then the SYSTEM SEGID file on the CMS system disk (MAINT 190) and
> CMS test system disk (MAINT 490) must be updated. You need to log on to
> your MAINT user ID and copy the SYSTEM SEGID file from the MAINT 51D
> disk to the MAINT 190 and MAINT 490 disks.

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

vmfview build

7.3.2 Copy the New NTuneMON V3R1 VM Serviced Files Into Production

1 Logon to MAINT if you plan to put NTuneMON V3R1 VM 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 NTuneMON V3R1 VM
code.

a If installing using minidisks

link P648D72A 29e 29e rr	The VMFCOPY command will update the VMSES
access 29e e	PARTCAT file on the &prodbld. disk.
access 19e f	
vmfcopy * * e = = f2 (prodid 5648D72A%NTUNEMON olddate replace	

b If installing using Shared File System

access P648D72A.NTUNEMON.tbuild e	The VMFCOPY command will update the VMSES
access 19e f	PARTCAT file on the &prodbld. disk.
vmfcopy * * e = = f2 (prodid 5648D72A%NTUNEMON olddate replace	

2 Logon to MAINT if you plan to put NTuneMON V3R1 VM help files on the system AMENG Help (MAINT's 19D) disk.

a If installing using minidisks

link P648D72A 29d 29d rr	The VMFCOPY command will update the VMSES
access 29d e	PARTCAT file on the AMENG Help (MAINT 19D)
acc 19d f	disk.

vmfcopy * * e = = f (prodid 5648D72A%NTUNEMON olddate replace

b If installing using Shared File System

access P648D72A.NTUNEMON.thelp e	The VMFCOPY command will update the VMSES
acc 19d f	PARTCAT file on the AMENG Help (MAINT 19D)
	disk.

vmfcopy * * e = = f (prodid 5648D72A%NTUNEMON olddate replace

3 Re-save 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 *VM/ESA Service Guide* for detailed information about how to save the CMS saved system.

4 Re-build the CMS HELP logical saved segment, to include NTuneMON V3R1 VM's help files from the AMENG Help (MAINT's 19D)disk. See the ″Placing (Serviced) Components into Production″ section of the *VM/ESA 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 NTuneMON V3R1 VM.

Appendix A. Applying an RSU Tape for NTuneMON V3R1 VM

The RSU is structured to install all PTFs included on the tape plus the tape files containing the preapplied service and prebuilt objects. All PTF-related files are loaded to the DELTA disk. The tape file containing the preapplied service, i.e. containing the results of VMFAPPLY, is loaded to the alternate APPLY disk and the contents of the tape files containing prebuilt objects are loaded to the appropriate build disks.

Points to consider about using the Product Service Upgrade procedure are:

This process will not alter any of your tailored flat files (files serviced full part replacement only) in any way. Local modifiable files you may have updated will have to be re-worked to include any new service to these files.

Planning must be done (such as determining disk sizes, and determining what service, if any, on your existing system is not contained on the RSU) prior to actually loading the service from the RSU. These tasks will be discussed.

The following outline is an overview of what tasks need to be performed during the Preventive Service procedure (PSU) using the RSU tape:

Prepare System

In this task, you will receive the documentation contained on the RSU and determine the DASD required to install the RSU.

Merge Service

Use the VMFMRDSK command to clear the alternate APPLY disk before receiving the RSU. This allows you to remove the new service if a serious problem is found.

Receive Service

The VMFINS command receives service from the RSU and places it on the DELTA disk.

Apply Additional 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. These steps are used to reapply service that was not contained on the RSU tape that was already installed for NTuneMON V3R1 VM.

Reapplying Local Modifications (if applicable)

All local modifications must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system.

Building New Levels

The build tasks generates the serviced level of an object and places the new object on a BUILD disk.

Placing 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, re-saving the NSS (Named Saved System) or DCSS (Discontiguous Saved Segments), etc.

A.1 Apply NTuneMON V3R1 VM RSU

A.1.1 Prepare Your System for Service Refresh

The *ppfname* used throughout these instructions is **5648D72A**, which assumes you are using the PPF supplied by IBM for NTuneMON V3R1 VM. If you have your own PPF override file for NTuneMON V3R1 VM you should use your file's *ppfname* instead of **5648D72A**. The *ppfname* you use should be used **throughout** the rest of this procedure.

Electronic Service (envelope file)

If you have received the RSU as an envelope file or on CD-ROM, follow the appropriate instructions to retrieve and decompact the envelope file to your A-disk. The decompaction is currently done by using the DETERSE MODULE. The file name of the decompacted file will be of the format RPTF*num*. The file type must be SERVLINK. You will need to enter the file name on the VMFINS commands.

---

1 Read through the latest RSU information hard copy memo.

2 Logon to the NTuneMON service user ID P648D72A

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 who has it linked R/W link it as R/O. You then can issue the following commands to obtain write access to it. Do not use *mw* mode.

link MAINT 51d 51d mr   The MAINT 51D disk is where the VMSES/E
access 51d d   system level software inventory files reside.

4 Mount the RSU tape on the tape drive as virtual device 181. You must use 181. (If you have a SERVLINK file make sure that it is available on the A-disk.)

5 Receive the documentation

Receive the documentation on the RSU. This step will also load the cumulative Apply Status Table (SRVAPPS) which identifies all preapplied service contained on the tape. These files are loaded to the 51D disk.

> **a** If receiving the RSU from tape

vmfins install info (nomemo

> **b** If receiving the RSU from an envelope file

vmfins install info (nomemo env rptf*num*

6 Determine DASD sizes for disks to receive service

In order to receive the service from the RSU, you need to have adequate space available on the alternate APPLY and DELTA disks. The required sizes are identified in the NTuneMON V3R1 VM documentation (5648D72A MEMO D) received in the previous step.

7 Setup the correct minidisk access order

vmfsetup 5648D72A {NTUNEMON | NTUNEMONSFS}

> Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

8 Merge the APPLY disks for NTuneMON V3R1 VM

Next, you must prepare your system to receive the service from the RSU. To do this, you must first clear the alternate APPLY disk for receipt of the service from the RSU.

Enter the VMFMRDSK command to merge the alternate apply disk to the APPLY disk. This will clear the alternate APPLY disk.

vmfmrdsk 5648D72A {NTUNEMON | NTUNEMONSFS} apply

> Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

9 You can obtain additional information about the service on the RSU and how it will affect your local modifications by invoking the VMFPSU command. This command creates an output file, ***appid* PSUPLAN**, which you can review. See *VM/ESA Service Guide* for an explanation of this file.

vmfpsu 5648D72A {NTUNEMON | NTUNEMONSFS}

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

This command produces an output file that contains information about the service on the RSU compared against the service and local modifications on your system. The file name is *appid* **PSUPLAN**, where *appid* is specified in the PPF file.

A.1.2 Receive the Preapplied, Prebuilt Service

1 Refresh the NTuneMON V3R1 VM service disks by loading new service from the RSU.

    a If receiving the RSU from tape

vmfins install ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (nomemo link

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

    b If receiving the RSU from an envelope file

vmfins install ppf 5648D72A {NTUNEMON | NTUNEMONSFS} (nomemo link env rptf*num*

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5648D72A
         NTUNEMON :PRODID 5648D72A%NTUNEMON?
         Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5648D72A NTUNEMON :PRODID
         5648D72A%NTUNEMON
VMFREQ2805I Product :PPF 5648D72A NTUNEMON :PRODID 5648D72A%NTUNEMON
         has passed requisite checking
VMFINT2603I Installing product :PPF 5648D72A NTUNEMON :PRODID
         5648D72A%NTUNEMON
VMFSET2760I VMFSETUP processing started for 5648D72A NTUNEMON
VMFUTL2205I Minidisk|Directory Assignments:
         String     Mode  Stat  Vdev  Label/Directory
VMFUTL2205I LOCALSAM  E      R/W   2C2   SES2C2
VMFUTL2205I LOCALMOD  F      R/W   2C4   SES2C4
VMFUTL2205I APPLY     G      R/W   2A6   SES2A6
VMFUTL2205I           H      R/W   2A2   SES2A2
VMFUTL2205I DELTA     I      R/W   2D2   SES2D2
VMFUTL2205I BUILD0    J      R/W   49A   SES49A
VMFUTL2205I BUILD2    K      R/W   493   SES493
VMFUTL2205I BUILD4    L      R/W   402   SES402
VMFUTL2205I BASE1     M      R/W   2B2   SES2B2
VMFUTL2205I --------  A      R/W   191   USR191
VMFUTL2205I --------  B      R/O   5E5   MNT5E5
VMFUTL2205I --------  C      R/O   292   ISP192
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 TAPE yynn
  ⋮
VMFREC2760I VMFREC processing completed successfully
VMFINT2760I VMFINST processing completed successfully
VMFINS2760I VMFINS processing completed successfully
Ready;
```

2 Check the receive message log ($VMFREC $MSGLOG) for warning and error
messages. If necessary, correct any problems before going on. For
information about handling specific receive messages, see *VM/ESA: System
Messages and Codes*, or use online HELP.

vmfview install

A.1.3 Process Additional Service

1 Apply additional service

The VMFAPPLY command is used to reapply service that was not contained on the refresh tape that was already installed for the component.

Applying service with preapplied, prebuilt service will reapply any reach-ahead service that may be on the system **or** indicate that there are no reach-ahead PTFs to be applied.

vmfapply ppf 5648D72A {NTUNEMON | NTUNEMONSFS}

Use **NTUNEMON** for installing on minidisks or **NTUNEMONSFS** for installing in Shared File System directories.

Messages VMFAPP2122E and VMFAPP2109R will be displayed only if you have reach-ahead service that needs to be reapplied. If you receive these messages, enter **1** in reply to VMFAPP2109R to reapply the reach-ahead service (as shown in the example below).

VMFAPP2122E The set of PTFs in the Apply Status Table (5648D72A
         SRVAPPS) on the 2A2 (G) disk is not a subset of the
         PTFs in the highest Level Apply Status Table on the
         2A6 (F) disk. This is an inconsistent state.
VMFAPP2109R VMFAPPLY will automatically correct the problem identified
         by message 2122E by including the missing PTFs in the
         current Apply List. Enter (1) to continue; (0) to quit.

1   If you receive these messages, enter **1** for VMFAPPLY to reapply the reach-ahead service.

2 Check the apply message log ($VMFAPP $MSGLOG) for warning and error messages. If necessary, correct any problems before going on. For information about handling specific apply messages, see *VM/ESA: System Messages and Codes*, or use online HELP.

vmfview apply

3 If necessary, rework **local modifications**.

The output from the VMFPSU command (which was run in an earlier step), *appid* **PSUPLAN** file, can be used to indicate what local service or mods are affected by the RSU Tape. If a PTF is applied and it contains service to a part for which you have a local modification, you will need to rework the local modification. Refer to the *VM/ESA Service Guide*.

A.1.4 Build the New Service Level and Place Into Production

To rebuild all objects that were affected by reach-ahead service that was reapplied, local modifications, and saved segments continue with the instructions in 7.2.4, "Update the Build Status Table" on page 36. This will also lead you into the steps to place NTuneMON V3R1 VM into production.

A.1.5 Service Next Component

Refer to the 5648D72A MEMO on the 51D disk, special instructions section, to see if you have another NTuneMON V3R1 VM component on the RSU Tape to service. If so, then continue with A.1.1, "Prepare Your System for Service Refresh" step 7 on page 43.

A.1.6 Place Product Service into Production

After all of the components have been serviced, follow the instructions in section 7.3, "Place the New NTuneMON V3R1 VM Service Into Production" on page 38 to copy test build disks to production build disks.

A.1.7 Determine RSU Service Level

The service contained on each RSU constitutes a new service level. Use this service level when ordering corrective service. The service level is updated in the system inventory when the RSU is installed.

The following command is used to query the current service level of the system.

vmfsim query vm sysrecs tdata :ppf *ppfname* **:stat** The output from this command is similar to the following console log. The last part of the status line indicates the RSU service level: 9901

```
VMFSIP2408I RESULTS FOR
         TDATA :PPF ppfname :STAT
:PPF ppfname compname
  :STAT RECEIVED.mm/dd/yy.hh:mm:ss.userid.RSU-9901
```

Appendix B. Create Product Parameter File (PPF) Override

This section provides information to help you create a product parameter file (PPF) override. The example used in this section shows how to change the shared file system (SFS) file pool where NTuneMON V3R1 VM files reside.

Note: Do **not** modify the product supplied 5648D72A $PPF or 5648D72A PPF files to change the file pool name or any other installation parameters. If the 5648D72A $PPF file is serviced, the existing $PPF file will be replaced, and any changes to that file will be lost; by creating your own $PPF override, your updates will be preserved.

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

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

xedit *overname* **$PPF** *fm***2**

overname is the PPF override file name (such as 'myNTuneMON') 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 NTuneMONSFS override area, so that it resembles the :DCL. section shown below. This override will be used for the installation of NTuneMON V3R1 VM.

```
:OVERLST. NTUNEMONSFS
*
* =====================================================================
* Override Section for Initial Installation (Using SFS Directories)
* =====================================================================
:NTUNEMONSFS. NTUNEMONSFS 5648D72A
:DCL. REPLACE
&INST191    DIR MYPOOL1:P648D72A.
&BASE       DIR MYPOOL1:P648D72A.NTUNEMON.OBJECT
&LOCALSAM   DIR MYPOOL1:P648D72A.NTUNEMON.SAMPLE
&DELTA      DIR MYPOOL1:P648D72A.NTUNEMON.DELTA
&APPLY2     DIR MYPOOL1:P648D72A.NTUNEMON.APPLYALT
&APPLY1     DIR MYPOOL1:P648D72A.NTUNEMON.APPLYPROD
&BUILD0  LINK  P648D72A  29E  29E  MR
&BUILD2  LINK  P648D72A  200  200  MR
&BUILD3  LINK  P648D72A  100  100  MR
&P648D72A   USER  P648D72A
:EDCL.
:END.
*
```

(This override will replace the :DCL. section of the NTuneMONSFS override area of the 5648D72A $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* **NTUNEMONSFS**   where *overname* is the file name of your $PPF override file.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5648D72A as the PPF name to be used for those VMSES/E commands that require a PPF name.

Reader's Comments

NTuneMON Version 3 Release 1 for VM

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1	**2**	**3**	**4**	**5**	**N**

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

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

Independent
Package

What type of package was ordered?

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

Is this the first time your organization has installed this product?

Yes
No

Were the people who did the installation experienced with the installation of VM products using VMSES/E?

Yes

How many years of experience do they have? _____

No

How long did it take to install this product? _____

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

_____

_____

_____

_____

_____

_____

_____

_____

Please provide the following contact information:

_____
Name and Job Title

_____
Organization

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Address

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Telephone

Thank you for your participation.

Please send the completed form to the following address, or give to your IBM representative who will forward it to the NTuneMON Development group:

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NTuneMON Version 3
VM/ESA

Publication No. GI10-6610-01

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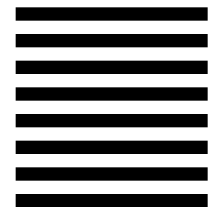Company or Organization _____

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