



Program Directory for NTuneMON

Version 2 Release 5

Program Number 5648-141

for Use with
VM/ESA

Document Date: October 1998

GI10-0993-00

Note!

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

This program directory, dated October 1998, applies to NTuneMON Version 2 Release 5 for VM (NTuneMON V2R5 VM), program number 5648-141 for the following:

| COMP IDs | REL | Feature Numbers | System Name |
|-----------------|------------|------------------------|--------------------|
| 564814101 | 520 | 5821, 5822, 6202 | VM/ESA |

and to all subsequent releases and modifications until otherwise indicated in new editions.

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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 V2R5 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 3 identifies the basic program materials and documentation for NTuneMON V2R5 VM.
- 3.0, "Program Support" on page 7 describes the IBM support available for NTuneMON V2R5 VM.
- 4.0, "Program and Service Level Information" on page 9 lists the program and service level information incorporated into NTuneMON V2R5 VM.
- 5.0, "Installation Requirements and Considerations" on page 11 identifies the resources and considerations for installing and using NTuneMON V2R5 VM.
- 6.0, "Installation Instructions" on page 17 provides detailed installation instructions for NTuneMON V2R5 VM.
- 7.0, "Service Instructions" on page 29 provides detailed servicing instructions for NTuneMON V2R5 VM.
- Appendix A, "APARs Incorporated into This Program" on page 39 lists the APARs incorporated into NTuneMON V2R5 VM.

NTuneNCP is an optional feature offered with NTuneMON V2R5 VM. The NTuneNCP Tuning Feature can be used in conjunction with NTuneMON V2R5 VM to provide enhanced online interactive tuning capabilities.

Before installing NTuneMON V2R5 VM, read 3.1, "Preventive Service Planning" on page 7. This section tells you how to find any updates to the information and procedures in this program directory. Also, read Section 5.6, "Special Considerations" on page 16 for information on using the ATUNELST CLIST.

Prior to NTuneMON V2R5, the NTuneNCP feature was packaged on separate media. The NTuneNCP feature of NTuneMON is now fully integrated into NTuneMON. There is no separate media to order and there is no separate installation process.

The NTuneNCP feature still remains a priced feature of NTuneMON. This feature must be licensed for every NCP image (1 for each 37xx) which will be tuned.

At the end of this program directory you will find a Reader's Comment Form. Please take time to complete this form and return it to the address shown on the form. Your comments and suggestions help improve this program directory and make installation easier.

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for NTuneMON V2R5 VM is 5648-141.

The program announcement material describes the features supported by NTuneMON V2R5 VM. Ask your IBM 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
- Basic, optional, and associated publications available for this program
- Publications useful during installation

2.1 Basic Machine-Readable Material

This section describes the basic machine-readable material for NTuneMON V2R5 VM.

The distribution medium for this program is a 9-track magnetic tape (written at 6250 bpi), a 3480 tape cartridge, or a 4 mm cartridge. The tape or cartridge contains all programs and data needed for installation. NTuneMON V2R5 VM is installed using VMSES/E. See section 6.0, "Installation Instructions" on page 17 for more information about how to install the program.

2.1.1 NTuneMON Product

Figure 1 describes the program tape or cartridge for the NTuneMON V2R5 VM program.

Figure 1. Basic Material: Program Tape

| Medium | Feature Number | Physical Volume | Tape Content | External Tape Label |
|------------|----------------|-----------------|------------------|---------------------|
| 6250 tape | 5821 | 1 | NTuneMON V2R5 VM | NTuneMON V2R5 VM |
| 3480 cart. | 5822 | 1 | NTuneMON V2R5 VM | NTuneMON V2R5 VM |
| 4 mm cart. | 6202 | 1 | NTuneMON V2R5 VM | NTuneMON V2R5 VM |

Figure 2 describes the file content of the program tape or cartridge for the NTuneMON V2R5 VM program.

Figure 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 |
| 7 | NTuneMON V2R5 VM Service |
| 8 | NTuneMON V2R5 VM Service |
| 9 | NTuneMON V2R5 VM Base Code |
| 10 | NTuneMON V2R5 VM Executable Code |

2.2 Optional Machine-Readable Material

NTuneNCP has been incorporated in the base code of NTuneMON V2R5 VM. No optional machine-readable materials are provided for NTuneMON V2R5 VM. Please see section 1.0, "Introduction" on page 1 for more information.

2.3 Program Publications

The following sections identify the basic, optional, and associated publications for NTuneMON V2R5 VM.

2.3.1 Basic Program Publications

Figure 3 identifies the basic program publications for NTuneMON V2R5 VM. One copy of this publication is included when you order the basic feature materials. For additional copies, contact your IBM representative. A fee is charged for additional copies.

Figure 3. Basic Material: Program Publications

| Publication Title | Form Number |
|--|--------------------|
| NTuneMON Licensed Program Specifications | GC31-6267 |
| NTuneMON User's Guide | SC31-6266 |

2.3.2 Optional Licensed Program Publications

Figure 4 on page 5 identifies the optional licensed publications for NTuneMON V2R5 VM. 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.

Figure 4. Optional Material: Licensed Publications

| Title | Form Number | Feature Number First Copy | Feature Number Additional Copy |
|----------------------------|-------------|---------------------------|--------------------------------|
| NTuneNCP Feature Reference | LY43-0039# | 7001 | 8008 |

Note: A pound symbol (#) beside the Form Number indicates that it contains "Restricted Materials of IBM."

2.3.3 Softcopy Publications

All NTuneMON V2R5 VM manuals, licensed and unlicensed, except for *NTuneMON Licensed Program Specifications*, are offered in displayable softcopy form on the media listed in Figure 5.

Figure 5. Softcopy Publications

| Title | Form Number | Feature Number First Copy | Feature Number Additional Copy |
|---|-------------|---------------------------|--------------------------------|
| ACF/NCP, ACF/SSP, EP, NPSI, and NTuneMON Softcopy Collection Kit CD-ROM | LK2T-0414# | 7110 | 8110 |

Note: Order this collection kit under the NCP product. (It is not orderable under NTuneMON.) A pound symbol (#) beside the Form Number indicates that it contains "Restricted Materials of IBM".

2.3.4 Publications Associated with NTuneMON V2R5 VM

Figure 6 on page 5 identifies publications that may be helpful when you use NTuneMON V2R5 VM. To order copies, contact your IBM representative. A fee is charged for each copy of these publications.

Figure 6. Publications Associated with NTuneMON V2R5 VM

| Publication Title | Order/Form Number |
|---|-------------------|
| Network Control Program Version 7 Release 7 Migration Guide | SC30-3889 |
| Network Control Program, System Support Programs, and Emulation Program Resource Definition Guide | SC31-6223 |
| Network Control Program, System Support Programs, and Emulation Program Resource Definition Reference | SC31-6224 |
| Planning for NetView, NCP, and VTAM | SC31-8063 |
| Planning for Integrated Networks | SC31-8062 |

2.4 Microfiche Support

Program listings are not provided with NTuneMON V2R5 VM.

2.5 Publications Useful During Installation

The publications listed in Figure 7 or Figure 8, depending on your VM/ESA release, may be useful during the installation of NTuneMON V2R5 VM. To order copies, contact your IBM representative.

Figure 7. Publications Useful During Installation / Service on VM/ESA Version 2.2.0

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

Figure 8. Publications Useful During Installation / Service on VM/ESA Version 2.3.0

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

3.0 Program Support

This section describes the IBM support available for NTuneMON V2R5 VM.

3.1 Preventive Service Planning

Before installing NTuneMON V2R5 VM, check with your IBM Support Center or use IBMLink (Service Link) to determine if there is additional Preventive Service Planning (PSP) information. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 9. PSP Upgrade and Subset ID

| Retain | | | |
|---------------|----------------|----------------|---------------|
| COMPID | Release | Upgrade | Subset |
| 564814101 | 520 | NTM250 | 520 |

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 provide the address to which any needed documentation can be sent.

Figure 10 identifies the component ID (COMPID), RETAIN Release, and Field Engineering Service Number (FESN) for NTuneMON V2R5 VM.

Figure 10. Component IDs

| Retain | | | |
|---------------|----------------|-----------------------|-------------|
| COMPID | Release | Component Name | FESN |
| 564814101 | 520 | NTuneMON V2R5 VM | 0402392 |

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of NTuneMON V2R5 VM. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs shipped with this program. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The program level refers to the APAR fixes incorporated into NTuneMON V2R5 VM. See Appendix A, "APARs Incorporated into This Program" on page 39 for a complete listing of the APARs incorporated into this program.

4.2 Service Level Information

The service level refers to the PTFs shipped with NTuneMON V2R5 VM.

Check the NTM250 PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service Tape

Cumulative service for NTuneMON V2R5 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 NTuneMON V2R5 VM.

5.1 Hardware Requirements

There are no special hardware requirements for NTuneMON V2R5 VM.

5.2 Program Considerations

The following sections list the programming considerations for installing NTuneMON V2R5 VM.

5.2.1 Operating System Requirements

NTuneMON V2R5 VM supports the following VM operating systems for as long as program services are available for the particular version and release.

- VM/ESA V2R2, or later
- VMSES/E on VM/ESA 2.2. Prior to installing NTuneMON V2R5 VM, **RSU9403 service level** or later must be applied.

5.2.2 Other Program Product Requirements

5.2.2.1 Programming 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>.

5.2.3 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.3.1 Minimum Requisites:

A minimum requisite is defined as one of the following:

- *Installation Requisite:* A product that is required at installation time. i.e. this product **will not install** successfully unless this requisite is met.
- *Run Time Requisite:* A product that is **not** required for the successful installation of this product, but **is** needed at run time in order for this product to work.

This program is supported in conjunction with the following licensed VM programs at the function level of the version and release for as long as program services are available for the particular version and release:

- NetView V2, or later, with REXX support
- NCP V4R3.1, or later

5.2.3.2 Functional Requisites:

VTAM V4R2, or later, is required to use the NTuneNCP.

Adding a peripheral SDLC line requires the following with their associated prerequisites:

- NCP V7R3, or later
- NTuneNCP

5.2.3.3 Compatibility Requisites:

The following sections describe cross product service considerations for NCP, SSP, VTAM, and NetView.

5.2.3.3.1 NCP and SSP:

The APARs listed in Figure 11 are required in order for NTuneMON to monitor 3746 Model 900 Connectivity Subsystem (CSS) token-ring lines.

| <i>Figure 11. APARs Required to Monitor 3746 Model 900 CSS Token-Ring Lines</i> | |
|---|-------------|
| Product Name | APAR |
| NCP V6R2 | IR99864 |
| SSP V3R8 | IR22686 |

The APARs listed in Figure 12 are required in order for NTuneMON to display the time and date stamp for the last beaconing MAC address.

| <i>Figure 12. APARs Required to Display Information for the Last Beaconing MAC Address.</i> | |
|---|-------------|
| Product Name | APAR |
| NCP V7R6 | IR36907 |

The APARs listed in Figure 13 are required in order for NTuneMON to display and tune the number of transmission head buffers allocated for 3745 frame-relay physical lines.

| <i>Figure 13. APARs Required to Display Information for Transmission Head Buffers</i> | |
|---|-------------|
| Product Name | APAR |
| NCP V7R6 | IR36886 |
| SSP V4R6 OS/390 | IR36896 |
| SSP V4R6 VM | IR36902 |
| SSP V4R6 VSE | IR36903 |

5.2.3.3.2 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 V4R1 for VM/ESA | OW06956 |
| VTAM V3R4.2 for VM/ESA | OW01987 |
| VTAM V3R4.1 for VM/ESA | OW06097 |

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 VM/ESA | OW06708 |

5.2.3.3.3 NetView:

The NetView APARs listed in Figure 16 are required for this program and NetView.

Figure 16. NetView APARs Required for this Program and NetView

| Product Name | APAR |
|---------------------|-------------|
| NetView V2R2 VM/ESA | OY47564 |
| NetView V2R1 VM/ESA | OY56482 |

5.3 Program Installation/Service Considerations

This section describes items that should be considered before you install or service NTuneMON V2R5 VM.

- VMSES/E is required to install and service this product.
- If multiple users install and maintain licensed products on your system, there might be a problem getting the necessary access to MAINT's 51D disk. If you find 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). Refer to *VMSES/E Introduction and Reference*, "Changing the Software Inventory to an SFS Directory" section, for information about how to make this change.
- Customers will no longer install and service NTuneMON V2R5 VM strictly using the MAINT user ID, but will use a new user ID, P648141H. 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 might be easier to make the changes during the installation procedure 6.2, "Plan Your Installation For NTuneMON V2R5 VM," step 6 on page 19, than after you have installed this product.

5.4 DASD Storage and User ID Requirements

Figure 17 on page 15 lists the user IDs and minidisks that are used to install and service NTuneMON V2R5 VM.

Important Installation Notes:

- For NTuneMON, user IDs and minidisks or SFS directories will be defined in section 6.2, "Plan Your Installation For NTuneMON V2R5 VM" 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.
- For NTuneMON, P648141H 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 change the name. This is explained in section 6.2, "Plan Your Installation For NTuneMON V2R5 VM," step 6 on page 19 .

Note: If you choose to install NTuneMON V2R5 VM on a common user ID, the default minidisk addresses for NTuneMON V2R5 VM might already be defined. If any of the default minidisks required by NTuneMON V2R5 VM are already in use, you have to create an override to change the default minidisks for NTuneMON V2R5 VM so they are unique.

Figure 17. DASD Storage Requirements for Target Minidisks for NTuneMON V2R5 VM

| Minidisk owner (user ID) | Default Address | Storage in Cylinders | | FB-512 Blocks | SFS 4-K Blocks | Usage |
|--------------------------|-----------------|----------------------|----------------|---------------|----------------|--|
| | | DASD | CYLS | | | Default SFS Directory Name |
| P648141H | 2B2 | 3390 3380 9345 | 16 20 20 | 24000 | 3000 | Contains all the base code shipped with NTuneMON V2R5 VM VMSYS:P648141H.ATF.OBJECT |
| P648141H | 2C2 | 3390 3380 9345 | 4 5 5 | 6000 | 750 | Contains customization files. This disk may also be used for local modifications. VMSYS:P648141H.ATF.LOCAL |
| P648141H | 2D2 | 3390 3380 9345 | 16 20 20 | 24000 | 3000 | Contains serviced files VMSYS:P648141H.ATF.DELTA |
| P648141H | 2A6 | 3390 3380 9345 | 8 10 10 | 12000 | 1500 | Contains AUX files and software inventory tables that represent the test service level of NTuneMON V2R5 VM VMSYS:P648141H.ATF.APPLYALT |
| P648141H | 2A2 | 3390 3380 9345 | 4 5 5 | 6000 | 750 | Contains AUX files and software inventory tables that represent the service level of NTuneMON V2R5 VM that is currently in production. VMSYS:P648141H.ATF.APPLYPRD |
| P648141H | 400 | 3390 3380 9345 | 16 20 20 | 24000 | 3000 | Test BUILD disk. This code will be copied to a production disk. VMSYS:P648141H.ATF.TRUN |
| P648141H | 401 | 3390 3380 9345 | 16 20 20 | 24000 | 3000 | Production BUILD disk. Files from the test BUILD disk are copied here for application use. VMSYS:P648141H.ATF.RUN |
| P648141H | 191 | 3390 3380 9345 | 8 10 10 | 12000 | 1500 | P648141H user ID's 191 minidisk VMSYS:P648141H. |

Note: Cylinder values defined in this table are based on a 4-K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2-K but should be CMS formatted at 1-K size. 16500 4-K blocks are needed for SFS install.

5.5 System Considerations

There are no system considerations for NTuneMON V2R5 VM.

5.6 Special Considerations

Following are special considerations for NTuneMON V2R5 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 section describes the installation methods and the step-by-step procedures to install NTuneMON V2R5 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 refer to “Understanding Dialogs with the System” in *VM/ESA Installation Guide*.

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

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 V2R5 VM, adapt these instructions as needed for your environment.

Note!

The sample console output presented throughout these instructions was produced on a VM/ESA R2.2.0 system. If you are installing NTuneMON V2R5 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 V2R5 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 V2R5 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 V2R5 VM.

- Install the NTuneMON V2R5 VM Product

Use the VMFINS command to load the NTuneMON V2R5 VM product files from tape to the test BUILD and BASE minidisks/directories. VMFINS is used to update the VM SYSBLDS file used by VMSES/E for software inventory management.

- Place NTuneMON V2R5 VM Files into Production

Once the product files have been installed and the operation of NTuneMON V2R5 VM is satisfactory, the product files are copied from the test BUILD disk to the production BUILD disk.

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

6.2 Plan Your Installation For NTuneMON V2R5 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 minidisk/SFS directory requirements
 - required products

To obtain planning information for your environment:

- 1** Log on as NTuneMON V2R5 VM installation planner.
This user ID can be any ID that has read access to MAINT’s 5E5 minidisk and write access to MAINT’s 51D minidisk.
- 2** Mount the NTuneMON V2R5 VM installation tape and attach it to 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
access 5e5 b**

The MAINT 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 only obtain read access (R/O) to this minidisk. If this occurs, you need to have that user re-link the 51D in read-only mode (RR), and 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 V2R5 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 V2R5 VM.

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

vmfins install ppf 5648141H {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 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 V2R5 VM. For example, you need to specify your PPF override file name instead of 5648141H for certain VMSES/E commands.
- b. If you are not familiar with creating PPF overrides using VMFINS, you should review the “Using the Make Override Panel” section in the *VMSES/E Introduction and Reference* before you continue.
- c. For more information about changing the VMSYS file pool name, refer to the *VMSES/E Introduction and Reference*.

```
VMFINS2760I VMFINS processing started
VMFREQ2805I Product 5648141H component NTuneMON passed requisite checking
Do you want to create an override for 5648141H NTuneMON (prodid 5648141H)?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFPLA1909I 5648141H PLANINFO created on your A-disk
VMFINS2760I VMFINS processing completed successfully
```

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

vmfview install

6.3 Allocate Resources for Installing NTuneMON V2R5 VM

Use the planning information in the 5648141H PLANINFO file, created in the **PLAN** step, to:

- Create the P648141H user directory for minidisk install
- OR**
- Create the P648141H user directory for SFS install

6.3.1 Installing NTuneMON V2R5 VM on Minidisk

- 1 Obtain the user directory from the 5648141H PLANINFO file.

Note: The user directory entry is located at the bottom of the PLANINFO file of the resource section; these entries will contain all the links and privilege classes necessary for the P648141H user ID. Use the directory entry found in PLANINFO as a model for input to your system directory.

- 2 Add the MDISK statements to the directory entry for P648141H. Use Figure 17 on page 15 to obtain the minidisk requirements.

- 3 If you are installing NTuneMON V2R5 VM on a VM/ESA 370 system, the following directory entry change must be made:

- For the P648141H directory entry:
 - Change the user ID storage from 24M to 16M.
 - Comment out or remove the MACHINE XA statement from the directory entry.

- 4 Add the P648141H directory to the system directory. Change the password for P648141H from xxxxx to a valid password, in accordance with your security guidelines.

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

Note

All minidisks for the P648141H user ID must be formatted before installing NTuneMON V2R5 VM.

6.3.2 Installing NTuneMON V2R5 VM in SFS Directories

- 1 Obtain the user directory from the 5648141H PLANINFO file.

Note: The user directory entry is located at the bottom of the PLANINFO file of the resource section; these entries contain all of the links and privilege classes necessary for the P648141H user ID. Use the directory entry found in PLANINFO as a model for input to your system directory.

- 2 If you are installing NTuneMON V2R5 VM on a VM/ESA 370 Feature system, the following directory entry change must be made:

- For the P648141H directory entry:
 - Change the user ID storage from 24M to 16M.

- Comment out or remove the MACHINE XA statement from the directory entry.
- 3** Add the P648141H directory to the system directory. Change the password for P648141H 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.
- 5** An SFS install also requires 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 the default NTuneMON V2R5 VM SFS directories, the 4K block requirements for each NTuneMON V2R5 VM are summarized in Figure 17 on page 15.

This information is used when enrolling the P648141H to the VMSYS filepool.
 - b** Enroll user P648141H in the VMSYS filepool using the ENROLL USER command:

```
ENROLL USER P648141H 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 V2R5 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 V2R5 VM, you need to add space to the filepool. Refer to *VM/ESA SFS/CRR Planning, Administration, and Operation* for information about adding space to a filepool.
 - d** Create the necessary subdirectories listed in the 5648141H PLANINFO file using the CREATE DIRECTORY command.

set filepool vmsys:
create directory *dirid*

dirid is the name of the SFS directory you're creating, such as:

```
create directory vmsys:P648141H.NTUNEMON  
create directory vmsys:P648141H.NTUNEMON.object
```

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

A complete list of default NTuneMON SFS directories is provided in Figure 17 on page 15.

- e** If you intend to use an SFS directory as the work space for the P648141H user ID, include the following IPL control statement in the P648141H directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

This will cause CMS to automatically access the P648141H's top directory as file mode A.

6.4 Install NTuneMON V2R5 VM

The *ppfname* used throughout these installation instructions is **5648141H**, which assumes you are using the PPF supplied by IBM for NTuneMON V2R5 VM. If you have your own PPF override file for NTuneMON V2R5 VM, you should use your file's *ppfname* instead of **5648141H**. The *ppfname* you use should be used **throughout** the rest of this procedure.

- 1** Log on to the installation user ID **P648141H**.
- 2** Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks.

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

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

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

profile

- 4 Establish write access to the Software Inventory disk, if it is not already linked R/W.

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

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

- 5 Mount the NTuneMON V2R5 VM installation tape and attach it to P648141H at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

- 6 Install NTuneMON V2R5 VM.

Note:

If you have already created a PPF override file, you should specify your override file name 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 are unsure how to respond to a prompt, refer to “Installing Products with VMFINS” and “Install Scenarios” chapters in *VMSES/E Introduction and Reference* to decide how to proceed.

vmfins install ppf 5648141H {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 do not want VMFINS to link to the appropriate minidisks, only access them if not accessed.

```

VMFINS2760I VMFINS processing started
VMFREQ2805I Product 5648141H component NTuneMON passed requisite checking
Do you want to create an override for 5648141H NTuneMON (prodid 5648141H)?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINT2760I VMFINST processing started
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  400   SES400
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 9800
VMFREC1851I (1 of 6) VMFRCAXL processing AXLIST
VMFRCX2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 6) VMFRCPTF processing PARTLST
VMFRCP2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (3 of 6) VMFRCCOM processing DELTA
VMFRCC2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (4 of 6) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (F)
VMFRCA2159I Loaded 1 part(s) to APPLY 2A6 (F)
VMFREC1851I (5 of 6) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (J)
VMFRCA2159I Loaded 1420 part(s) to BASE1 2B2 (J)
VMFREC1851I (6 of 6) VMFRCALL processing BUILD
VMFRCA2159I Loading part(s) to BUILD0 400 (I)
VMFRCA2159I Loaded 1418 part(s) to BUILD0 400 (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 proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview install

6.4.1 Update Build Status Table for NTuneMON V2R5 VM

- 1 Update the VM SYSBLDS software inventory file for NTuneMON V2R5 VM.

vmfins build ppf 5648141H {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 5648141H 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, refer to *VM/ESA: System Messages and Codes*, or use on-line HELP.

vmfview install

6.5 Place NTuneMON V2R5 VM into Production

This section describes the procedure to place NTuneMON V2R5 VM into production.

6.5.1 Copy NTuneMON V2R5 VM Files Into Production

- 1 Log on to the P648141H user ID. This user ID owns the disk that will contain the “production” level of the NTuneMON V2R5 VM code.

- a If installing using minidisks

access 400 e

access 401 f

vmfcopy * * e = = f2 (prodid 5648141H%NTUNEMON olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 401 disk.

- b If installing using Shared File System

access P648141H.ATF.trun e

access P648141H.ATF.run f

vmfcopy * * e = = f2 (prodid 5648141H%NTUNEMON olddate replace

The VMFCOPY command will update the VMSES
PARTCAT file on the 401 disk.

NTuneMON V2R5 VM is now installed and built on your system.

7.0 Service Instructions

This section contains the procedure to install CORrective service to NTuneMON V2R5 VM.

VMSES/E is used to install the service. To become more familiar with service using VMSES/E, you should read the introductory chapters in *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 otherwise directed. 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 V2R5 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 easily 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).

7.2 Servicing NTuneMON V2R5 VM

This section describes the procedure to service NTuneMON V2R5 VM.

7.2.1 Prepare to Receive Service

The *ppfname* used throughout these servicing instructions is **5648141H**, which assumes you are using the PPF supplied by IBM for NTuneMON V2R5 VM. If you have your own PPF override file for NTuneMON V2R5 VM, you should use your file's *ppfname* instead of **5648141H**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

1 Log on to NTuneMON V2R5 VM service user ID **P648141H**

2 Establish access to the software inventory disk.

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

3 Have the NTuneMON V2R5 VM CORrective service tape mounted and attached to **P648141H**.

4 Establish the correct minidisk access order.

vmfsetup 5648141H {NTUNEMON | NTUNEMONSFS}5648141H is the PPF that was shipped with the product. If you have your own PPF override, you should substitute your PPF name for 5648141H.

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

5 Receive the documentation. VMFREC, with the INFO option, loads the documentation and displays a list of all the products on the tape.

Electronic Service

If you are receiving service from Service Link (electronic service), refer to Appendix A, "Receiving Service for VMSES Envelopes", section "Receive Service Documentation", in the *VM/ESA Service Guide*. Remember to substitute the *ppfname* and *compname* used for servicing NTuneMON V2R5 VM in the instructions shown in that Appendix. Then return back to this program directory and continue with step 7 on page 31 below.

vmfrec info

This command will load the service memo to the 191 disk.

- 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 Clear the alternate APPLY disk to ensure that you have a clean disk for new service.

vmfmrdsk 5648141H {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.

- 8 Review the merge message log (\$VMFMRD \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *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 proid before applying and building it.

Electronic Service

If you are receiving service from Service Link (electronic service), refer to the Appendix A, "Receiving Service for VMSES Envelopes", section "Receive the Service", in the *VM/ESA Service Guide*. Remember to substitute the *ppfname* and *compname* used for servicing NTuneMON V2R5 VM in the instructions shown in that Appendix. Then return back to this program directory and continue with section 7.2.3, "Apply the Service."

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

- 1 Receive the service.

vmfrec ppf 5648141H {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.

- 2 Review the receive message log (\$VMFREC \$MSGLOG). If necessary, correct any problems before proceeding. For information about handling specific error messages, refer to *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 5648141H {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 proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview apply

Note

If you get message VMFAPP2120W, re-apply any local modifications before building the new NTuneMON V2R5 VM. Refer to *VM/ESA Service Guide*. Follow the steps that are applicable to your local modification.

The following substitutions need to be made:

- **esalcl** should be **5648141H**
- **esa** should be **5648141H**
- *compname* should be **NTUNEMON** or **NTUNEMONSFS** (minidisk or SFS)
- *appid* should be **5648141H**
- *fm-local* should be the fm of 2C2
- *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 “Rebuilding Objects” step in *VM/ESA Service Guide*, you should return to this program directory at 7.2.4, “Update the Build Status Table.”

7.2.4 Update the Build Status Table

- 1 Update the Build Status Table with serviced parts.

vmfbld ppf 5648141H {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 get the following prompt:

VMFBLD2185R The following source product parameter files have been serviced:

VMFBLD2185R 5648141H \$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 5648141H \$PPF
on 191 (A) from level \$PFnnnnn

vmfppf 5648141H {NTUNEMON | NTUNEMONSFS}

Note: If you created your own PPF override, use your PPF name instead of 5648141H.

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

**copyfile 5648141H \$PPF a = = d (olddate replace
erase 5648141H \$PPF a**

Note: **Do not** use your own PPF name in place of 5648141H for the COPYFILE and ERASE commands.

vmfbl d ppf 5648141H {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 V2R5 VM serviced parts.

vmfbld ppf 5648141H {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 proceeding. For information about handling specific error messages, refer to *VM/ESA System Messages and Codes*, or use on-line HELP.

vmfview build

7.3 Place the New NTuneMON V2R5 VM Service Into Production

This section describes the procedure to place the new NTuneMON V2R5 VM service into production.

7.3.1 Copy the New NTuneMON V2R5 VM Serviced Files Into Production

- 1 Log on to the P648141H user ID. This user ID owns the disk that will contain the “production” level of the NTuneMON V2R5 VM code.
 - a If installing using minidisks

access 400 e
access 401 f
vmfcopy * * e = = f2 (prodid 5648141H%NTUNEMON olddate replace

The VMFCOPY command updates the VMSES
PARTCAT file on the 401 disk.

b If installing using Shared File System

access P648141H.ATF.trun e
access P648141H.ATF.run f
vmfcopy * * e = = f2 (prodid 5648141H%NTUNEMON olddate replace

The VMFCOPY command updates the VMSES
PARTCAT file on the 401 disk.

You have finished servicing NTuneMON V2R5 VM.

Appendix A. APARs Incorporated into This Program

The following NTuneMON V2R4 APARs are incorporated into this program.

IR37142

IR37143

Reader's Comments

Program Directory for NTuneMON Version 2 Release 5 for VM

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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 | | | | | | |
|-------------------|---------|---|---|---|----------------------|-------------------|
| very satisfied | ←—————→ | | | | very dissatisfied | not applicable |
| 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 | |

- What type of package was ordered?
 - Independent
 - 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

Address

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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