IBM

Program Directory for

Query Management Facility

for VM/ESA

Version 6 Release 1.0

Program Number 5648-A70

for Use with
VM/ESA Version 2 Release 2.0
or higher

Document Date: December 1998

GI10-4962-00

Note

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

This program directory, dated December 1998, applies to Query Management Facility Version 6 Release 1.0 (QMF for VM), Program Number 5648-A70.

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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 **Query Management Facility for VM/ESA Version 6** (abbreviated to QMF for VM in this document). 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 QMF for VM.

- 3.0, "Program Support" on page 6 describes the IBM support available for QMF for VM.

- 4.0, "Program and Service Level Information" on page 7 lists the APARs (program level) and PTFs (service level) incorporated into QMF for VM.

- 5.0, "Installation Requirements and Considerations" on page 8 identifies the resources and considerations for installing and using QMF for VM.

- 6.0, "Installation Instructions" on page 12 provides detailed installation instructions for QMF for VM.

- 7.0, "Service Instructions" on page 31 provides detailed servicing instructions for QMF for VM.

Before installing QMF for VM, read 3.1, "Preventive Service Planning" on page 6. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

IBM Query Management Facility (QMF) is a tightly integrated, powerful, and reliable tool that performs query and reporting for IBM's DB2 relational database Management System Family. It offers an easy-to-learn, interactive interface. Users with little or no data processing experience can easily retrieve, create, update, insert, or delete data that is stored in DB2.

QMF offers a total solution that includes accessing large amounts of data and sharing central repositories of queries and enterprise reports. It also allows you to implement tightly-controlled, distributed, or client/server solutions. In addition, you can use QMF to publish reports to the World Wide Web that you can view with your favorite web browser.

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2.0 Program Materials

An IBM program is identified by a program number. The program number for QMF for VM V6 is 5648-A70.

The program announcement material describes the features supported by QMF for 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 QMF for VM is as follows:

- One 3480 tape cartridge or
- One 4mm tape cartridge or
- One 9 track magnetic tape (written at 6250 BPI) or
- One 1/4" tape cartridge

The QMF for VM tape contains all of the programs and data needed for installation. QMF for VM is installed using VMSES/E. See section 6.0, "Installation Instructions" on page 12 for more information about how to install QMF for VM. Figure 1 describes the tape for QMF for VM. Figure 3 on page 3 describes the file content of the program tape.

If you ordered QMF for VM with QMF for Windows, you will receive one tape for QMF for VM on one of the distribution mediums indicated above. In addition you will receive one CD-ROM for QMF for Windows Version 6. The QMF for VM tape contains all the programs and data needed for installation. QMF for VM is installed using VMSES/E. See section 6.0, "Installation Instructions" on page 12 for more information about how to install QMF for VM. Figure 2 on page 3 describes the tape for QMF for VM when ordered with QMF for Windows. Figure 3 on page 3 describes the file content of the program tape. The CD-ROM contains all of the programs and data needed for installation. Refer to the README.TXT file in the root directory on the CD-ROM for information about the CD-ROM and installation instructions.

Figure 1 (Page 1 of 2). Basic Material: Program Tape - QMF for VM				
Feature Number	**Medium**	**Physical Volume**	**Tape Content**	**External Tape Label**
5963	3480 cart.	1	QMF for VM V6 English	QMF for VM V6 (E)
6691	4mm cart.	1	QMF for VM V6 English	QMF for VM V6 (E)
5962	6250 tape	1	QMF for VM V6 English	QMF for VM V6 (E)

Figure 1 (Page 2 of 2). Basic Material: Program Tape - QMF for VM				
Feature Number	**Medium**	**Physical Volume**	**Tape Content**	**External Tape Label**
5952	1/4" cart.	1	QMF for VM V6 English	QMF for VM V6 (E)

Figure 2. Basic Material: Program Tape - QMF for VM when order with QMF for Windows				
Feature Number	**Medium**	**Physical Volume**	**Tape Content**	**External Tape Label**
6827	3480 cart.	1	QMF for VM V6 English	QMF for VM V6 (E)
6828	4mm cart.	1	QMF for VM V6 English	QMF for VM V6 (E)
6829	6250 tape	1	QMF for VM V6 English	QMF for VM V6 (E)
6826	1/4" cart.	1	QMF for VM V6 English	QMF for VM V6 (E)

Figure 3. 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	QMF for VM Service
8	QMF for VM Service
9	QMF for VM Base
10	QMF for VM Sample
11	QMF for VM Production
12	QMF for VM Distribution

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for QMF for VM.

2.3 Program Publications

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

2.3.1 Basic Program Publications

One copy of each of the following publications is included when you order the basic materials for QMF for VM. For additional copies, contact your IBM representative.

Figure 4. Basic Material: Unlicensed Publications - QMF for VM	
Publication Title	**Form Number**
Installing and Managing QMF on VM/ESA	GC26-9573
Introducing QMF	GC26-9576
QMF Reference	SC26-9577
Using QMF	SC26-9578
Developing QMF Applications	SC26-9579
QMF Messages and Codes	GC26-9580

If you ordered QMF for VM with QMF for Windows, you also receive one copy of each of the following publications for QMF for Windows. For additional copies, contact your IBM representative.

Figure 5. Basic Material: Unlicensed Publications - QMF for Windows	
Publication Title	**Form Number**
Getting Started with QMF for Windows	SC26-9582
Installing and Managing QMF for Windows	GC26-9583

2.4 Microfiche Support

There is no microfiche for QMF for VM.

2.5 Publications Useful During Installation

The publications listed in Figure 6 on page 5 or Figure 7 on page 5, depending on your VM/ESA release, may be useful during the installation of QMF for VM. To order copies, contact your IBM representative.

For QMF for Windows, refer to the README.TXT file in the root directory on the CD-ROM for information about the CD-ROM and installation instructions. Refer to the *Installing and Managing QMF for Windows* manual for information about prerequisite software, information on configuring your network environment, and documentaion related to the installation and execution of QMF for Windows.

Figure 6. 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 7. Publications Useful During Installation / Service on VM/ESA Version 2.3.0	
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 QMF for VM.

3.1 Preventive Service Planning

Before installing QMF for 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 8. PSP Upgrade and Subset ID

	Retain		
COMPID	**Release**	**Upgrade**	**Subset**
566872101	690	DB2VSEVM610	QMF/690

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 9 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for QMF for VM V6.

Figure 9. Component IDs

	Retain		
COMPID	**Release**	**Component Name**	**FESN**
566872101	690	QMF/VM BASE	6472101

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of QMF for VM V6. 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

QMF for VM V6 has incorporated all closed APARS from previous versions/releases which were closed prior to October 8, 1998.

4.2 Service Level Information

Check the DB2VSEVM610 PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service Tape

Cumulative service for QMF for VM V6 is available through a monthly, or as requested, corrective service tape, Expanded Service Option, ESO.

5.0 Installation Requirements and Considerations

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

5.1 Hardware Requirements

There are no special hardware requirements for QMF for VM.

5.2 Program Considerations

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

5.2.1 Operating System Requirements

QMF for VM supports the following VM operating systems:

- VM/ESA Version 2 Release 2.0 or higher

5.2.2 Other Program Product Requirements

This section shows the program requirements for QMF for VM V6. The minimum release level for each product is listed; later releases are also supported unless stated otherwise.

Later releases that are not available at the QMF for VM V6 announcement time are not supported, unless specifically stated otherwise.

Refer to the *Installing and Managing QMF on VM/ESA* book or the QMF for VM V6 announcement letter for a list of program products required for optional functions to identify other program products you might need to use for certain QMF functions.

Figure 10. Prerequisite Software for QMF for VM

Required Products	Version Release	Order Number
DB2 for VM	Version 6 Release 1	5648-A70
GDDM/VMXA, or	Version 2 Release 3	5684-007
GDDM/VM	Version 3 Release 1.1	5684-168

5.2.3 Program Installation and Service Considerations

This section describes items that should be considered before you install or service QMF for 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 QMF for VM strictly using the MAINT user ID, but will use a new user ID--P648A70A. 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 QMF for VM" step 6 on page 14, rather than after you have installed this product.

5.3 DASD Storage and User ID Requirements

Figure 11 lists the user IDs, minidisks and default SFS directory names that are used to install and service QMF for VM.

Important Installation Notes:

- User ID(s) and minidisks or SFS directories will be defined in 6.2, "Plan Your Installation For QMF for VM" on page 13 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.

- P648A70A 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 QMF for VM" step 6 on page 14.

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

| Minidisk owner (user ID) | Default Address | Storage in Cylinders | | FB-512 Blocks | SFS 4K Blocks | Usage |
		DASD	CYLS			Default SFS Directory Name
P648A70A	2B2	3390 3380 9345	25 30 30	36000	4500	Contains all the base code shipped with QMF for VM **VMSYS:P648A70A.QMF.OBJECT**
P648A70A	2C2	3390 3380 9345	2 2 2	2400	300	Contains customization files. This disk may also be used for local modifications. **VMSYS:P648A70A.QMF.SAMPLE**
P648A70A	2D2	3390 3380 9345	5 5 5	6000	750	Contains serviced files **VMSYS:P648A70A.QMF.DELTA**
P648A70A	2A6	3390 3380 9345	2 2 2	2400	300	Contains AUX files and software inventory tables that represent the test service level of QMF for VM **VMSYS:P648A70A.QMF.ALTAPPLY**
P648A70A	2A2	3390 3380 9345	2 2 2	2400	300	Contains AUX files and software inventory tables that represent the service level of QMF for VM that is currently in production. **VMSYS:P648A70A.QMF.PRODAPPLY**
P648A70A	501	3390 3380 9345	17 20 20	24000	3000	Test Build disk for QMF for VM Distribution Code. After testing, copy to 500 disk. **VMSYS:P648A70A.QMF.TDISTRIB**
P648A70A	500	3390 3380 9345	17 20 20	24000	3000	QMF for VM Distribution Code minidisk. **VMSYS:P648A70A.QMF.DISTRIB**
P648A70A	401	3390 3380 9345	18 21 21	25200	3150	Test Build disk for QMF for VM Production Code. After testing, copy to 400 disk. **VMSYS:P648A70A.QMF.TQMFPROD**
P648A70A	400	3390 3380 9345	18 21 21	25200	3150	QMF for VM Production Code minidisk. **VMSYS:P648A70A.QMF.QMFPROD**
P648A70A	191	3390 3380 9345	9 10 10	12000	1500	P648A70A user ID's 191 minidisk **VMSYS:P648A70A.**

Figure 11. 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. 19,950 4K blocks are needed for SFS install.

5.4 Special Considerations

5.4.1 GDDM Requirements to Support Euro Currency Symbol

To support the Euro currency symbol you are required to install GDDM V3 PTF UQ22081. The following APARs are fixed by this PTF.

- PQ18168
- PQ18169
- PQ18170
- PQ18171
- PQ18172

6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate QMF for 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 QMF for 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 QMF for 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 QMF for VM using VMSES/E.

- Plan Your Installation

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

- Install the QMF for VM Product

  Use the VMFINS command to load the QMF for 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 6.6, "Post-Installation Considerations" on page 30.

- Place QMF for VM Files into Production

Once the product files have been tailored and the operation of QMF for 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 QMF for 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 QMF for 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 QMF for 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 QMF for 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 QMF for VM.

Notes:

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

vmfins install ppf 5648A70A {QMF | QMFSFS} (plan nomemo

Use **QMF** for installing on minidisks or **QMFSFS** 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 QMF for VM. For example, you will need to specify your PPF override file name instead of 5648A70A 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 5648A70A QMF
            :PRODID. 5648A70A%QMF?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5648A70A QMF :PRODID
            5648A70A%QMF
VMFREQ1909I 5648A70A PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5648A70A QMF :PRODID 5648A70A%QMF
            has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5648A70A QMF
            :PRODID 5648A70A%QMF
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 5648A70A QMF
>             :PRODID 5648A70A%QMF
>
> VMFREQ2806W Type            Product  Component        PTF
>             -------------- -------- ---------------- -------------
> VMFREQ2806W Prerequisite  5648A70S
> VMFREQ2806W Prerequisite  5684007A
> VMFREQ2806W   OR           568416A
> VMFREQ2806W   OR           568416B
> VMFINT2603I Planning for the installation of product :PPF 5648A70A QMF
>             :PRODID 5648A70A%QMF
> VMFRMT2760I VMFRMT processing started
> VMFRMT2760I VMFRMT processing completed successfully
> VMFINS2760I VMFINS processing completed unsuccessfully
> ```
>
> This message indicates that DB2 for VM V6 and GDDM are prerequisite products for QMF for VM and that one of the prequisites required is not installed via VMSES/E.
>
> The first prerequisite is for DB2 for VM, as follows:
>
> DB2 for VM V6   (5648-A70) - 5648A70S - is VMSES/E installable
>
> The next set of prequisites are for GDDM, as follows:
>
> GDDM/VMXA V2R3   (5684-007) - 5684007A - is not VMSES/E installable
> GDDM/VM   V3R1M1 (5684-168) - 568416A - is VMSES/E installable
> GDDM/VM   V3R2   (5684-168) - 568416B - is VMSES/E installable
>
> If you do not have DB2 for VM V6 or one of the GDDM prerequisites installed, you must do so.
>
> If you have GDDM/VMXA (5684-007) installed and you see the missing requisities messages, then you need to update the VMSES/E system inventory before proceeding with the install of QMF for VM.

Update the software inventories by issuing the following commands:

vmfsim modify vm sysrecs d tdata :prodid 5684007A :PPF 5684007A lib :stat received

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

vmfsim modify vm sysapps d tdata :prodid 5684007A :PPF 5684007A lib :stat applied

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

vmfsim modify vm sysreqt d tdata :prodid 5684007A

> 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 QMF for VM

Use the planning information in the 5648A70A PLANINFO file, created in the **PLAN** step, to:

- Create the P648A70A user directory for minidisk install

  OR

- Create the P648A70A user directory for SFS install

6.3.1 Installing QMF for VM on Minidisk

1 Obtain the user directory from the 5648A70A 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 P648A70A 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 P648A70A. Use
Figure 11 on page 9 to obtain the minidisk requirements.

3 If you have GDDM V3R2 installed, you need to comment out or remove the
following LINK statement from the QMF CP directory entry as GDDM V3R2
uses MAINT 19E as its production disk. If you are not using MAINT 19E then
you need to change the LINK statement to reflect the GDDM production disk
you are using.

- For the P648A70A directory entry:

    – LINK P68416A 401 194 RR   * GDDM TXTLIBS

4 If you are using ISPF with QMF for VM, you need to add a link for ISPF such
as:

- For the P648A70A directory entry:

    – LINK ISPVM   193 193 RR   * ISPF LIBRARIES

5 Add the P648A70A directory entry to the system directory. Change the
password for P648A70A from xxxxx to a valid password, in accordance with
your security guidelines.

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

Note

All minidisks for the P648A70A user ID must be formatted before installing
QMF for VM.

6.3.2 Installing QMF for VM in SFS Directories

1 Obtain the user directory from the 5648A70A 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 P648A70A user ID. Use the directory
entry found in PLANINFO as a model as input to your system directory.

2 If you have GDDM V3R2 installed, you need to comment out or remove the
following LINK statement from the QMF CP directory entry as GDDM V3R2
uses MAINT 19E as its production disk. If you are not using MAINT 19E then
you need to change the LINK statement to reflect the GDDM production disk
you are using.

- For the P648A70A directory entry:

    - LINK P68416A 401 194 RR   * GDDM TXTLIBS

3 If you are using ISPF with QMF for VM, you need to add a link for ISPF such as:

- For the P648A70A directory entry:

    - LINK ISPVM   193 193 RR   * ISPF LIBRARIES

4 Add the P648A70A directory entry to the system directory. Change the password for P648A70A 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.

6 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 QMF for VM SFS directories, the 4K block requirements for the directories are summarized in Figure 11 on page 9.

This information will be used when enrolling the P648A70A to the VMSYS filepool.

b Enroll user P648A70A in the VMSYS filepool using the ENROLL USER command:

`ENROLL USER P648A70A 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 QMF for 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 QMF for 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 5648A70A 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:P648A70A.qmf
create directory vmsys:P648A70A.qmf.object
          :
```

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

A complete list of default QMF for VM SFS directories is provided in Figure 11 on page 9.

e If you intend to use an SFS directory as the work space for the P648A70A user ID, include the following IPL control statement in the P648A70A directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

This will cause CMS to automatically access the P648A70A's top directory as file mode A.

6.4 Install QMF for VM

The *ppfname* used throughout these installation instructions is **5648A70A**, which assumes you are using the PPF supplied by IBM for QMF for VM. If you have your own PPF override file for QMF for VM, you should use your file's *ppfname* instead of **5648A70A**. The *ppfname* you use should be used **throughout** the rest of this procedure.

1 Logon to the installation user ID **P648A70A**.

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

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

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

3 Run the profile to access MAINT's minidisks.

profile

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

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

link MAINT 51d 51d mr
access 51d d

5 Have the QMF for VM installation tape mounted and attached to P648A70A at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

6 Install QMF for 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 (5648A70A), 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 "Installing Products with VMFINS" and "Install Scenarios" chapters in the *VMSES/E Introduction and Reference* to decide how to proceed.

vmfins install ppf 5648A70A {QMF | QMFSFS} (nomemo nolink

Use **QMF** for installing on minidisks or **QMFSFS** 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 5648A70A QMF
            :PRODID. 5648A70A%QMF?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5648A70A QMF :PRODID
            5648A70A%QMF
VMFREQ2805I Product :PPF 5648A70A QMF :PRODID 5648A70A%QMF
            has passed requisite checking
VMFINT2603I Installing product :PPF 5648A70A QMF :PRODID
            5648A70A%QMF
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   401   SES401
VMFUTL2205I BUILD2    J     R/W   501   SES501
VMFUTL2205I BASE1     K     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 8) VMFRCAXL processing AXLIST
VMFRCX2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (2 of 8) VMFRCPTF processing PARTLST
VMFRCP2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (3 of 8) VMFRCCOM processing DELTA
VMFRCC2159I Loading 0 part(s) to DELTA 2D2 (H)
VMFREC1851I (4 of 8) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (F)
VMFRCA2159I Loaded 1 part(s) to APPLY 2A6 (F)
VMFREC1851I (5 of 8) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (K)
VMFRCA2159I Loaded 957 part(s) to BASE1 2B2 (K)
VMFREC1851I (6 of 8) VMFRCALL processing SAMPLE
VMFRCA2159I Loading part(s) to LOCALSAM 2C2 (E)
VMFRCA2159I Loaded 1 part(s) to LOCALSAM 2C2 (E)
VMFREC1851I (7 of 8) VMFRCALL processing BUILD400
VMFRCA2159I Loading part(s) to BUILD0 401 (I)
VMFRCA2159I Loaded 155 part(s) to BUILD0 401 (I)
VMFREC1851I (8 of 8) VMFRCALL processing BUILD500
VMFRCA2159I Loading part(s) to BUILD2 501 (J)
VMFRCA2159I Loaded 772 part(s) to BUILD2 501 (J)
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.

vmfview install

6.4.1 Update Build Status Table for QMF for VM

1 Update the VM SYSBLDS software inventory file for QMF for VM.

vmfins build ppf 5648A70A {QMF | QMFSFS} (serviced nolink

Use **QMF** for installing on minidisks or **QMFSFS** 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 5648A70A 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.

vmfview install

6.5 Place QMF for VM Into Production

6.5.1 Define and Build the QMF for VM Saved Segments Using VMSES/E

It is recommended that segments be built for QMF for 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.

The QMF shared segment size has increased for this version from 704 pages to 767 pages (from 2.8 MB to 3 MB). Please note the new segment definition range specified in the DEFPARMS field in the Add Segment Definition panel in Figure 14 on page 27.

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 QMF for 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 **P648A70A**.

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

link MAINT 51d 51d mr
access 51d d

3 Add QMF for 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 12 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 RRRRRRRNNNNNNNNNNNNNNNNNNNNNNNNNNN6..............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 RRRRRRRRRRRRRRRRR9..............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..............RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>

================================= 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 12. 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 13 on
page 26 to see the Add Segment Definition panel
that will be displayed.

```
                         Add Segment Definition
                                                        Lines 1 to nn of nn
       OBJNAME....:  QMF610E
       DEFPARMS...:
       SPACE......:
       TYPE.......:  SEG
       OBJDESC....:
       OBJINFO....:
       GT_16MB....:  NO
       DISKS......:
       SEGREQ.....:
       PRODID.....:  5648A70A QMF
       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 13. Add Segment Definition panel example.

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

OBJNAME....: **QMF610E**   Use **QMF** for building segments from a minidisk or
PRODID.....: **5648A70A QMF**   **QMFSFS** for building segments from SFS
                                                   directories.

F10   **F10** will obtain the QMF for VM segment
                                                   information from the 5648A70A PRODPART file.
                                                   See Figure 14 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....:  QMF610E                                                    │
│   DEFPARMS...:  1B00-1DFF SR                                               │
│   SPACE......:                                                             │
│   TYPE.......:  SEG                                                        │
│   OBJDESC....:  QMF DCSS                                                   │
│   OBJINFO....:  Do not overlap DB2 for VM and GDDM base segments.          │
│           :  You must link to these products at addresses listed          │
│           :  below while building the QMF DCSS.                            │
│   GT_16MB....:  YES                                                        │
│   DISKS......:  195 194                                                    │
│   SEGREQ.....:                                                             │
│   PRODID.....:  5648A70A QMF                                               │
│   BLDPARMS...:  PPF(5648A70A QMF DSQ2EBSG)                                 │
│                                                                           │
│                                                                           │
│                                                                           │
│   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 14. Add Segment Definition panel showing the new segments

At this point you can modify the segment definition by updating the Add
Segment Definition panel. Some things to keep in mind are:

a. You must be linked to the DB2 for VM production disk and to the GDDM
   base production (TXTLIB) disk when you load the QMF shared segment.
   The cuu addresses (or SFS directories) must be specified in the DISKS
   field in the panel above. The default address for the DB2 for VM
   production disk is 195. The default address for the GDDM base
   production (TXTLIB) disk is 194. If you are using MAINT 19E as the
   GDDM production disk, remove the 194 entry from the DISKS field.

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

c. The QMF DCSS should not overlap the DCSS of the QMF interface
   products, (ie. GDDM, DB2 for VM, ISPF).

d. The QMF shared segment size has increased for this release from 704
   pages to 767 pages (from 2.8 MB to 3 MB). The new range is defined
   in the DEFPARMS field.

6 Go back to the Segment Map panel.

F5   **F5** will return you to the Segment Map panel. See Figure 15 for the refreshed Segment Map panel that will be displayed.

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


Meg             018-MB          019-MB          01A-MB          01B-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF
D QMF610E  DCS 8..............9...............A................RRRRRRRRRRRRRRRRRR>
M BOOKTSTR DCS 8..............RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
M GCS1     SYS >NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNA..............B.........
M ARIQSTAT DCS 8..............WWWWWWW---------A...............B.........
M DSQBETAE DCS 8..............9...............A................RRRRRRRRRRRRRRRRRR>

Meg             01C-MB          01D-MB          01E-MB          01F-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789
D QMF610E  DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRE..............F...............
M BOOKTSTR DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRE..............F...............
M DSQBETAE DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR---E..............F...............

Meg             020-MB          021-MB          022-MB          023-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789
M DB2HM69  DCS RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
M DB2HM84  DCS RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
 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 15. 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

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

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).

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

d You must be linked to the DB2 for VM production disk and to the GDDM base production (TXTLIB) disk to load the QMF shared segment. The default addresses are 195 for DB2 for VM and 194 for GDDM. These were specified in the Add Segment Definition panel. Link to your DB2 for VM and GDDM disks at the address you specified on the Add Segment Definition Panel.

link sqlmach 195 195 rr

link p68416a 401 194 rr

If GDDM is using the MAINT 19E for its production disk, then do not issue the link for the 194 disk; nor a link for MAINT 19E as it should already be linked.

9 Issue VMFBLD command to build the QMF for VM segments.

vmfbld ppf segbld esasegs segblist QMF610E (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**.)

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6.5.2 Copy QMF for VM Files Into Production

1 To copy QMF Test Distribution files to QMF Distribution disk when installing using minidisks:

access 501 e
access 500 f
vmfcopy * * e = = f (prodid 5648A70A%QMF olddate replace

> The VMFCOPY command will update the VMSES PARTCAT file on the 500 disk.
>
> **Note:** When installing using Shared File System directories instead of the **access 501 e** and **access 500 f** do **access P648A70A.qmf.tdistrib e** and **access P648A70A.qmf.distrib f**.

2 To copy QMF Test Production files to QMF Production disk when installing using minidisks:

access 401 e
access 400 f
vmfcopy * * e = = f (prodid 5648A70A%QMF olddate replace

> The VMFCOPY command will update the VMSES PARTCAT file on the 400
>
> **Note:** When installing using Shared File System directories instead of the **access 401 e** and **access 400 f** do **access P648A70A.qmf.tqmfprod e** and **access P648A70A.qmf.qmfprod f**.

QMF for VM is now installed and built on your system.

6.6 Post-Installation Considerations

Now that you have completed the VMSES/E installation of QMF for VM V6 and built the QMF DCSS, you must follow the steps in *Installing and Managing QMF on VM/ESA* (GC26-9573) to install QMF for VM V6 into the DB2 for VM database and run the IVP. *Installing and Managing QMF on VM/ESA* also contains information on starting QMF.

7.0 Service Instructions

This section of the Program Directory contains the procedure to install CORrective service to QMF for VM. VMSES/E is used to install service for QMF for 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 QMF for 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) or DCSS (Discontiguous Saved Segments), etc.

7.2 Servicing QMF for VM

7.2.1 Prepare to Receive Service

The *ppfname* used throughout these servicing instructions is **5648A70A**, which assumes you are using the PPF supplied by IBM for QMF for VM. If you have your own PPF override file for QMF for VM, you should use your file's *ppfname* instead of **5648A70A**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

1 Logon to QMF for VM service user ID **P648A70A**

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
access 51d d

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

3 Have the QMF for VM CORrective service tape mounted and attached to **P648A70A**.

4 Establish the correct minidisk access order.

vmfsetup 5648A70A {QMF | QMFSFS}

5648A70A is the PPF that was shipped with the product. If you have your own PPF override you should substitute your PPF name for 5648A70A.

Use **QMF** for installing on minidisks or **QMFSFS** 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.

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

vmfmrdsk 5648A70A {QMF | QMFSFS} apply

Use **QMF** for installing on minidisks or **QMFSFS** 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 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 mulitple service tapes, you can receive all of the service for this prodid before applying and building it.

Electronic Service

If you are receiving service from Servicelink (electronic service) see 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 QMF for 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 5648A70A {QMF | QMFSFS}

Use **QMF** for installing on minidisks or **QMFSFS** 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 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 5648A70A {QMF | QMFSFS}

Use **QMF** for installing on minidisks or **QMFSFS** 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

Note

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

The following substitutions need to be made:

- **esalcl** should be **5648A70A**

- **esa** should be **5648A70A**

- *compname* should be **QMF** or **QMFSFS** (minidisk or SFS)

- *appid* should be **5648A70A**

- *fm-local* should be the fm of 2C2

- *fm-altapply* should be the fm of 2A6

- **outmode localmod** should be **outmode localsam**

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

Keep in mind that when you get to the "Return to the Appropriate Section to Build Remaining Objects" or "Rebuild Remaining Objects" step in the *VM/ESA Service Guide*, you should return back 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 5648A70A {QMF | QMFSFS} (status

> Use **QMF** for installing on minidisks or **QMFSFS** 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 5648A70A $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 5648A70A $PPF                                        │
│              on 191 (A) from level $PFnnnnn                                │
│                                                                            │
│  vmfppf 5648A70A *                    Note:  If you've created your own PPF │
│                                       override then use your PPF name instead of │
│                                       5648A70A.                            │
│                                                                            │
│                                                                            │
│  copyfile 5648A70A $PPF a = = d (olddate replace                           │
│  erase 5648A70A $PPF a                                                     │
│                                                                            │
│                                       Note:  Do not use your own PPF name in │
│                                       place of 5648A70A for the COPYFILE and │
│                                       ERASE commands.                      │
│                                                                            │
│  vmfbld ppf 5648A70A {QMF | QMFSFS} (status                                │
│                                                                            │
│  1                                    Re-issue VMFBLD to complete updating the │
│                                       build status table.                  │
│                                                                            │
│                                       Use QMF for installing on minidisks or │
│                                       QMFSFS 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 QMF for VM serviced parts.

vmfbld ppf 5648A70A {QMF | QMFSFS} (serviced

Use **QMF** for installing on minidisks or **QMFSFS** 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 QMF for 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

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

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).

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

d You must be linked to the DB2 for VM production disk and to the
GDDM base production (TXTLIB) disk to load the QMF shared
segment. The default addresses are 195 for DB2 for VM and 194 for
GDDM. These were specified in the Add Segment Definition panel.
Link to your DB2 for VM and GDDM disks at the address you specified
on the Add Segment Definition Panel.

link sqlmach 195 195 rr

link p68416a 401 194 rr   If GDDM is using the MAINT 19E for its production
disk, then do not issue the link for the 194 disk; nor
a link for MAINT 19E as it should already be
linked.

2 Re-save the QMF for VM segments.

vmfbld ppf segbld esasegs segblist QMF610E (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 QMF for VM Serviced Files Into Production

1 To copy QMF Test Distribution files to QMF Distribution disk when installing using minidisks:

access 501 e
access 500 f
vmfcopy * * e = = f (prodid 5648A70A%QMF olddate replace

> The VMFCOPY command will update the VMSES PARTCAT file on the 500 disk.
>
> **Note:** When installing using Shared File System directories instead of the **access 501 e** and **access 500 f** do **access P648A70A.qmf.tdistrib e** and **access P648A70A.qmf.distrib f**.

2 To copy QMF Test Production files to QMF Production disk when installing using minidisks:

access 401 e
access 400 f
vmfcopy * * e = = f (prodid 5648A70A%QMF olddate replace

> The VMFCOPY command will update the VMSES PARTCAT file on the 400
>
> **Note:** When installing using Shared File System directories instead of the **access 401 e** and **access 400 f** do **access P648A70A.qmf.tqmfprod e** and **access P648A70A.qmf.qmfprod f**.
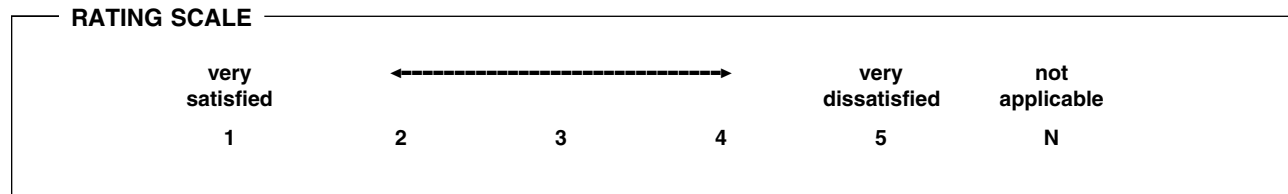

You have finished servicing QMF for VM.

Reader's Comments

Query Management Facility Version 6 Release 1.0

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

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

```
┌── RATING SCALE ──────────────────────────────────────────────────────────────────┐
│                                                                                    │
│         very        <------------------------------>        very        not        │
│       satisfied                                          dissatisfied   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

- 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

_____

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 Query Management Facility Development group:

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San Jose, CA 95161-9023
Attention: QMF Department, J49

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