# Program Directory for
# Query Management Facility
# for VM/ESA
# National Language Features

Version 7 Release 1.0

Program Number 5697-F42

for Use with
VM/ESA® Version 2 Release 2
VM/ESA Version 2 Release 3
VM/ESA Version 2 Release 4

Document Date: September 2000

GI10-8331-00

**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 September 2000, applies to Query Management Facility for VM/ESA National Language Features (QMF NLF), Version 7 Release 1.0, program number 5697-F42.

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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 a **Query Management Facility for VM/ESA National Language Feature Version 7** (abbreviated to QMF NLF 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 3 identifies the basic and optional program materials and documentation for QMF NLF.
- 3.0, “Program Support” on page 9 describes the IBM support available for QMF NLF.
- 4.0, “Program and Service Level Information” on page 11 lists the APARs (program level) and PTFs (service level) incorporated into QMF NLF.
- 5.0, “Installation Requirements and Considerations” on page 12 identifies the resources and considerations for installing and using QMF NLF.
- 6.0, “Installation Instructions” on page 15 provides detailed installation instructions for QMF NLF.
- 7.0, “Service Instructions” on page 30 provides detailed servicing instructions for QMF NLF.
- Appendix A, “Create Product Parameter File (PPF) Override” on page 40 provides detailed information on overriding the Product Parameter File (PPF).

Before installing QMF NLF, read 3.1, “Preventive Service Planning” on page 9. This section tells you how to find any updates to the information and procedures in this program directory.

## 1.1 Program Description

This is the National Language Feature of the Query Management Facility for VM/ESA product. 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.

## 1.2 National Language Feature Identifications

Throughout this document the term NLF is used to represent any of the National Language Features available with QMF Version 7. For each QMF NLF available, there is a unique language letter identifier, a PPFNAME, a PRODID and a DCSS name assigned for that language. Please refer to Figure 1 on page 2 for a list of these assigned values for all languages provided with QMF Version 7.

In this document the **PPFNAME** and the **PRODID** are referred to as **5697F42E**. For each language installation, it is necessary to replace **5697F42E** with the appropriate PPFNAME and PRODID assigned for that National Language Feature. In this document the QMF saved segment (**DCSS**) name is referred to as **QMF710U**. For each language installation, it is necessary to replace **QMF710U** with the appropriate DCSS name assigned for that National Language Feature. Refer to the following table for the appropriate values assigned to each National Language Feature provided with QMF Version 7.

*Figure 1. National Language Identifiers*

| Language | Language Letter Identifier | PPFNAME and PRODID | DCSS NAME |
|---|---|---|---|
| Brazilian Portuguese | P | 5697F42G | QMF710P |
| Canadian French | C | 5697F42L | QMF710C |
| Danish | Q | 5697F42M | QMF710Q |
| French | F | 5697F42B | QMF710F |
| German | D | 5697F42C | QMF710D |
| Italian | I | 5697F42H | QMF710I |
| Japanese | K | 5697F42D | QMF710K |
| Korean | H | 5697F42N | QMF710H |
| Simplified Chinese | R | 5697F42F | QMF710R |
| Spanish | S | 5697F42P | QMF710S |
| Swedish | V | 5697F42J | QMF710V |
| Swiss French | Y | 5697F42Q | QMF710Y |
| Swiss German | Z | 5697F42K | QMF710Z |
| Uppercase English | U | 5697F42E | QMF710U |

# 2.0 Program Materials

An IBM program is identified by a program number. The program number for Query Management Facility National Language Feature for VM/ESA Version 7 is 5697-F42.

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

The following sections identify:

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

## 2.1 Basic Machine-Readable Material

The distribution medium for this program is 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 tape contains all the programs and data needed for installation. QMF NLF is installed using VMSES/E.

See section 6.0, “Installation Instructions” on page 15 for more information about how to install the program. Figure 2 describes the tape or cartridge. Figure 3 on page 5 describes the file content of the program tape or cartridge.

*Figure 2 (Page 1 of 3). Basic Material: Program Tape - QMF NLF*

| Feature Number | Medium | Physical Volume | Tape Content | External Tape Label |
|---|---|---|---|---|
| 6141 | 3480 cart. | 1 | QMF for VM V7 Brazilian Portuguese | QMF for VM V7 (P) |
| 6142 | 4mm cart. | 1 | QMF for VM V7 Brazilian Portuguese | QMF for VM V7 (P) |
| 6143 | 6250 tape | 1 | QMF for VM V7 Brazilian Portuguese | QMF for VM V7 (P) |
| 6140 | 1/4" cart. | 1 | QMF for VM V7 Brazilian Portuguese | QMF for VM V7 (P) |
| 6208 | 3480 cart. | 1 | QMF for VM V7 Canadian French | QMF for VM V7 (C) |
| 6209 | 4mm cart. | 1 | QMF for VM V7 Canadian French | QMF for VM V7 (C) |
| 6210 | 6250 tape | 1 | QMF for VM V7 Canadian French | QMF for VM V7 (C) |
| 6207 | 1/4" cart. | 1 | QMF for VM V7 Canadian French | QMF for VM V7 (C) |
| 6157 | 3480 cart. | 1 | QMF for VM V7 Danish | QMF for VM V7 (Q) |

*Figure 2 (Page 2 of 3). Basic Material: Program Tape - QMF NLF*

| Feature Number | Medium | Physical Volume | Tape Content | External Tape Label |
|---|---|---|---|---|
| 6158 | 4mm cart. | 1 | QMF for VM V7 Danish | QMF for VM V7 (Q) |
| 6159 | 6250 tape | 1 | QMF for VM V7 Danish | QMF for VM V7 (Q) |
| 6156 | 1/4" cart. | 1 | QMF for VM V7 Danish | QMF for VM V7 (Q) |
| 6096 | 3480 cart. | 1 | QMF for VM V7 French | QMF for VM V7 (F) |
| 6097 | 4mm cart. | 1 | QMF for VM V7 French | QMF for VM V7 (F) |
| 6098 | 6250 tape | 1 | QMF for VM V7 French | QMF for VM V7 (F) |
| 6095 | 1/4" cart. | 1 | QMF for VM V7 French | QMF for VM V7 (F) |
| 6117 | 3480 cart. | 1 | QMF for VM V7 German | QMF for VM V7 (D) |
| 6118 | 4mm cart. | 1 | QMF for VM V7 German | QMF for VM V7 (D) |
| 6119 | 6250 tape | 1 | QMF for VM V7 German | QMF for VM V7 (D) |
| 6116 | 1/4" cart. | 1 | QMF for VM V7 German | QMF for VM V7 (D) |
| 6181 | 3480 cart. | 1 | QMF for VM V7 Italian | QMF for VM V7 (I) |
| 6182 | 4mm cart. | 1 | QMF for VM V7 Italian | QMF for VM V7 (I) |
| 6183 | 6250 tape | 1 | QMF for VM V7 Italian | QMF for VM V7 (I) |
| 6180 | 1/4" cart. | 1 | QMF for VM V7 Italian | QMF for VM V7 (I) |
| 6104 | 3480 cart. | 1 | QMF for VM V7 Japanese | QMF for VM V7 (K) |
| 6105 | 4mm cart. | 1 | QMF for VM V7 Japanese | QMF for VM V7 (K) |
| 6106 | 6250 tape | 1 | QMF for VM V7 Japanese | QMF for VM V7 (K) |
| 6103 | 1/4" cart. | 1 | QMF for VM V7 Japanese | QMF for VM V7 (K) |
| 6125 | 3480 cart. | 1 | QMF for VM V7 Korean | QMF for VM V7 (H) |
| 6126 | 4mm cart. | 1 | QMF for VM V7 Korean | QMF for VM V7 (H) |
| 6127 | 6250 tape | 1 | QMF for VM V7 Korean | QMF for VM V7 (H) |
| 6124 | 1/4" cart. | 1 | QMF for VM V7 Korean | QMF for VM V7 (H) |
| 6108 | 3480 cart. | 1 | QMF for VM V7 Simplified Chinese | QMF for VM V7 (R) |
| 6109 | 4mm cart. | 1 | QMF for VM V7 Simplified Chinese | QMF for VM V7 (R) |
| 6111 | 6250 tape | 1 | QMF for VM V7 Simplified Chinese | QMF for VM V7 (R) |
| 6107 | 1/4" cart. | 1 | QMF for VM V7 Simplified Chinese | QMF for VM V7 (R) |
| 6133 | 3480 cart. | 1 | QMF for VM V7 Spanish | QMF for VM V7 (S) |
| 6134 | 4mm cart. | 1 | QMF for VM V7 Spanish | QMF for VM V7 (S) |
| 6135 | 6250 tape | 1 | QMF for VM V7 Spanish | QMF for VM V7 (S) |
| 6132 | 1/4" cart. | 1 | QMF for VM V7 Spanish | QMF for VM V7 (S) |

*Figure 2 (Page 3 of 3). Basic Material: Program Tape - QMF NLF*

| Feature Number | Medium | Physical Volume | Tape Content | External Tape Label |
|---|---|---|---|---|
| 6149 | 3480 cart. | 1 | QMF for VM V7 Swedish | QMF for VM V7 (V) |
| 6150 | 4mm cart. | 1 | QMF for VM V7 Swedish | QMF for VM V7 (V) |
| 6151 | 6250 tape | 1 | QMF for VM V7 Swedish | QMF for VM V7 (V) |
| 6148 | 1/4" cart. | 1 | QMF for VM V7 Swedish | QMF for VM V7 (V) |
| 6165 | 3480 cart. | 1 | QMF for VM V7 Swiss French | QMF for VM V7 (Y) |
| 6166 | 4mm cart. | 1 | QMF for VM V7 Swiss French | QMF for VM V7 (Y) |
| 6167 | 6250 tape | 1 | QMF for VM V7 Swiss French | QMF for VM V7 (Y) |
| 6164 | 1/4" cart. | 1 | QMF for VM V7 Swiss French | QMF for VM V7 (Y) |
| 6173 | 3480 cart. | 1 | QMF for VM V7 Swiss German | QMF for VM V7 (Z) |
| 6174 | 4mm cart. | 1 | QMF for VM V7 Swiss German | QMF for VM V7 (Z) |
| 6175 | 6250 tape | 1 | QMF for VM V7 Swiss German | QMF for VM V7 (Z) |
| 6172 | 1/4" cart. | 1 | QMF for VM V7 Swiss German | QMF for VM V7 (Z) |
| 6189 | 3480 cart. | 1 | QMF for VM V7 Uppercase English | QMF for VM V7 (U) |
| 6190 | 4mm cart. | 1 | QMF for VM V7 Uppercase English | QMF for VM V7 (U) |
| 6191 | 6250 tape | 1 | QMF for VM V7 Uppercase English | QMF for VM V7 (U) |
| 6188 | 1/4" cart. | 1 | QMF for VM V7 Uppercase English | QMF for VM V7 (U) |

*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 NLF Service |
| 8 | QMF NLF Service |
| 9 | QMF NLF Base Code |
| 10 | QMF NLF Sample |
| 11 | QMF NLF Production |
| 12 | QMF NLF Distribution |

## 2.2 Optional Machine-Readable Material

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

## 2.3 Program Publications

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

### 2.3.1 Basic Program Publications

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

If a country provides a translated publication, the customer will receive the translated publication instead. Refer to Figure 5 for a list of the countries that provide translated publications and the form number for each translated publication.

*Figure 4. Basic Material: Unlicensed Publications*

| Publication Title | Form Number |
|---|---|
| *Installing and Managing QMF on VM/ESA* | GC27-0720 |
| *QMF Messages and Codes* | GC27-0717 |

*Figure 5. Translated Program Publications*

| National Language | Publication Title | Form Number |
|---|---|---|
| Japanese | QMF Messages and Codes | GC88-8621-00 |
| Korean | QMF Messages and Codes | GA30-1050-00 |

### 2.3.2 Optional Program Publications

The following are the optional publications that can be ordered. For additional copies, contact your IBM representative.

If a country provides a translated optional publication, the customer can order the translated publication instead. Refer to Figure 7 on page 7 for a list of the countries that provide translated publications and the form number for each translated publication.

*Figure 6. Optional Material: Unlicensed Publications*

| Publication Title | Form Number |
|---|---|
| *Introducing QMF* | GC27-0714 |
| *QMF Reference* | SC27-0715 |
| *Using QMF* | SC27-0716 |
| *Developing QMF Applications* | SC27-0718 |

*Figure 7. Translated Optional Publications*

| National Language | Publication Title | Form Number |
|---|---|---|
| Brazilian Portuguese | Introducing QMF | S517-6997-00 |
| Brazilian Portuguese | QMF Reference | S517-6998-00 |
| Brazilian Portuguese | Using QMF | S517-6999-00 |
| French | Introducing QMF | GC11-1685-00 |
| French | Using QMF | SC11-1687-00 |
| German | Introducing QMF | GC12-2858-00 |
| German | QMF Reference | SC12-2849-00 |
| German | Using QMF | SC12-2850-00 |
| Italian | Introducing QMF | GC13-2904-00 |
| Italian | QMF Reference | SC13-2905-00 |
| Italian | Using QMF | SC13-2906-00 |
| Japanese | Introducing QMF | GC88-8618-00 |
| Japanese | QMF Reference | SC88-8619-00 |
| Japanese | Using QMF | SC88-8620-00 |
| Japanese | Developing QMF Applications | SC88-8622-00 |
| Korean | Introducing QMF | GA30-1047-00 |
| Korean | QMF Reference | SA30-1048-00 |
| Korean | Using QMF | SA30-1049-00 |
| Korean | Developing QMF Applications | SA30-1051-00 |
| Spanish | Introducing QMF | GC10-3530-00 |
| Spanish | QMF Reference | SC10-3531-00 |
| Korean | Using QMF | SC10-3532-00 |

## 2.4 Microfiche Support

There is no microfiche for QMF NLF.

## 2.5 Publications Useful During Installation

The publications listed in Figure 8 or Figure 9, depending on your VM/ESA release, may be useful during the installation of QMF NLF. To order copies, contact your IBM representative.

*Figure 8. 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 9. Publications Useful During Installation / Service on VM/ESA Version 2.3.0 or higher*

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

# 3.0 Program Support

This section describes the IBM support available for QMF NLF.

## 3.1 Preventive Service Planning

Before installing QMF NLF, 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 10. PSP Upgrade and Subset ID in Retain*

| COMPID | Release | Upgrade | Subset | National Language |
|---|---|---|---|---|
| 566872101 | 79B | DB2VSEVM710 | QMF/79B | Brazilian Portuguese |
| 566872101 | 79G | DB2VSEVM710 | QMF/79G | Canadian French |
| 566872101 | 795 | DB2VSEVM710 | QMF/795 | Danish |
| 566872101 | 796 | DB2VSEVM710 | QMF/796 | French |
| 566872101 | 797 | DB2VSEVM710 | QMF/797 | German |
| 566872101 | 798 | DB2VSEVM710 | QMF/798 | Italian |
| 566872101 | 799 | DB2VSEVM710 | QMF/799 | Japanese |
| 566872101 | 79A | DB2VSEVM710 | QMF/79A | Korean |
| 566872101 | 793 | DB2VSEVM710 | QMF/793 | Simplified Chinese |
| 566872101 | 79C | DB2VSEVM710 | QMF/79C | Spanish |
| 566872101 | 79D | DB2VSEVM710 | QMF/79D | Swedish |
| 566872101 | 79E | DB2VSEVM710 | QMF/79E | Swiss French |
| 566872101 | 79F | DB2VSEVM710 | QMF/79F | Swiss German |
| 566872101 | 791 | DB2VSEVM710 | QMF/791 | Uppercase English |

## 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 11 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for each QMF NLF for Version 7.

*Figure 11. COMPIDs, Release and FESN Numbers in Retain*

| COMPID | Release | Component Name | National Language | FESN |
|---|---|---|---|---|
| 566872101 | 79B | QMF/VM BRAZIL PORT | Brazilian Portuguese | 6472101 |
| 566872101 | 79G | QMF/VM CAN FRENCH | Canadian French | 6472101 |
| 566872101 | 795 | QMF/VM DANISH | Danish | 6472101 |
| 566872101 | 796 | QMF/VM FRENCH | French | 6472101 |
| 566872101 | 797 | QMF/VM GERMAN | German | 6472101 |
| 566872101 | 798 | QMF/VM ITALIAN | Italian | 6472101 |
| 566872101 | 799 | QMF/VM JAPANESE | Japanese | 6472101 |
| 566872101 | 79A | QMF/VM KOREAN | Korean | 6472101 |
| 566872101 | 793 | QMF/VM SIMP CHINESE | Simplified Chinese | 6472101 |
| 566872101 | 79C | QMF/VM SPANISH | Spanish | 6472101 |
| 566872101 | 79D | QMF/VM SWEDISH | Swedish | 6472101 |
| 566872101 | 79E | QMF/VM SWISS FRENCH | Swiss French | 6472101 |
| 566872101 | 79F | QMF/VM SWISS GERMAN | Swiss German | 6472101 |
| 566872101 | 791 | QMF/VM U/C ENGLISH | Uppercase English | 6472101 |

# 4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of QMF NLF. 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 NLF V7 has incorporated all closed APARS from previous versions/releases which were closed prior to August 4, 2000.

## 4.2 Service Level Information

Check the DB2VSEVM710 PSP bucket for any additional PTFs that should be installed or any additional install information.

## 4.3 Cumulative Service Tape

Cumulative service for QMF NLF Version 7 Release 1.0 is available through a monthly corrective service tape, Expanded Service Option, ESO.

# 5.0 Installation Requirements and Considerations

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

## 5.1 Hardware Requirements

The QMF NLF panels and messages contain national language characters. Use of the feature requires terminals using the national language codepage, national language keyboards and appropriate machine logic.

## 5.2 Program Considerations

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

### 5.2.1 Operating System Requirements

QMF NLF supports the following VM operating systems:

- VM/ESA Version 2 Release 4
- VM/ESA Version 2 Release 3
- VM/ESA® Version 2 Release 2
- **RSU9904 service level** or above must be applied to VMSES/E on VM/ESA 2.4.0 prior to installing QMF NLF
- **RSU9905 service level** or above must be applied to VMSES/E on VM/ESA 2.3.0 prior to installing QMF NLF
- **RSU9904 service level** or above must be applied to VMSES/E on VM/ESA 2.2.0 prior to installing QMF NLF

**Note:** VMSES/E product packaging APAR VM62316 has to be applied in order to install QMF NLF. It is contained in the above RSU's.

### 5.2.2 Other Program Product Requirements

You must install the QMF for VM V7 base product prior to installing a QMF NLF. All product requisities of QMF for VM V7 base are also product requisites of QMF NLF. For details, see the list of base product requisites in the QMF for VM V7 base product program directory. The QMF for VM V7 base product distribution and production disks are required for the QMF NLF installation.

### 5.2.3 Program Installation and Service Considerations

This section describes items that should be considered before you install or service QMF NLF.

- 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 NLF strictly using the MAINT user ID, but will use a new user ID--P697F42A. 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 NLF” step 6 on page 17, rather than after you have installed this product.

## 5.3 DASD Storage and User ID Requirements

Figure 12 lists the user IDs, minidisks and default SFS directory names that are used to install and service QMF NLF.

**Important Installation Notes:**

- User ID(s) and minidisks or SFS directories will be defined in 6.2, “Plan Your Installation For QMF NLF” on page 16 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.
- P697F42A 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 NLF” step 6 on page 17.
- If you choose to install QMF NLF on a common user ID the default minidisk addresses for QMF NLF may already be defined. If any of the default minidisks required by QMF NLF are already in use you will have to create an override to change the default minidisks for QMF NLF so they are unique.

**Note!**

The QMF NLF will be installed with the same user ID and minidisks or SFS directories as the QMF for VM V7 base product. However, the QMF NLF installation requires additional DASD be added to the existing QMF base product minidisks or SFS directories. Additional DASD must be added to addresses 2B2, 401, 400, 501 and 500. Figure 12 is the DASD table, which has been taken from the QMF for VM V7 base product program directory and updated accordingly to reflect the new DASD requirements for disks containing both the QMF for VM V7 base product and a single QMF NLF.

*Figure 12. DASD Storage Requirements for Target Minidisks*

| Minidisk owner (user ID) | Default Address | Storage in Cylinders | | FB-512 Blocks | SFS 4K Blocks | Usage |
|---|---|---|---|---|---|---|
| | | DASD | CYLS | | | Default SFS Directory Name |
| P697F42A | 2B2 | 3390<br>3380<br>9345 | 32<br>37<br>37 | 44400 | 5500 | Contains all the base code shipped with QMF NLF **VMSYS:P697F42A.QMF.OBJECT** |
| P697F42A | 2C2 | 3390<br>3380<br>9345 | 2<br>2<br>2 | 2400 | 300 | Contains customization files. This disk may also be used for local modifications. **VMSYS:P697F42A.QMF.SAMPLE** |
| P697F42A | 2D2 | 3390<br>3380<br>9345 | 5<br>5<br>5 | 6000 | 750 | Contains serviced files<br><br>**VMSYS:P697F42A.QMF.DELTA** |
| P697F42A | 2A6 | 3390<br>3380<br>9345 | 2<br>2<br>2 | 2400 | 300 | Contains AUX files and software inventory tables that represent the test service level of QMF NLF **VMSYS:P697F42A.QMF.APPLYALT** |
| P697F42A | 2A2 | 3390<br>3380<br>9345 | 2<br>2<br>2 | 2400 | 300 | Contains AUX files and software inventory tables that represent the service level of QMF NLF that is currently in production. **VMSYS:P697F42A.QMF.APPLYPROD** |
| P697F42A | 501 | 3390<br>3380<br>9345 | 19<br>22<br>22 | 26400 | 3300 | Test Build disk for QMF NLF Distribution Code. After testing, copy to 500 disk. **VMSYS:P697F42A.QMF.TDISTRIB** |
| P697F42A | 500 | 3390<br>3380<br>9345 | 19<br>22<br>22 | 26400 | 3300 | QMF NLF Distribution Code minidisk. **VMSYS:P697F42A.QMF.DISTRIB** |
| P697F42A | 401 | 3390<br>3380<br>9345 | 23<br>26<br>26 | 31200 | 3900 | Test Build disk for QMF NLF Production Code. After testing, copy to 400 disk. **VMSYS:P697F42A.QMF.TQMFPROD** |
| P697F42A | 400 | 3390<br>3380<br>9345 | 23<br>26<br>26 | 31200 | 3900 | QMF NLF Production Code minidisk. **VMSYS:P697F42A.QMF.QMFPROD** |
| P697F42A | 191 | 3390<br>3380<br>9345 | 9<br>10<br>10 | 12000 | 1500 | P697F42A user ID's 191 minidisk<br><br>**VMSYS:P697F42A.** |

**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. 23,050 4K blocks are needed for SFS install.

# 6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate QMF NLF.

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 NLF, adapt these instructions as needed for your environment.

**Note**

The sample console output presented throughout these instructions was produced on a VM/ESA 2.3.0 system. If you're installing QMF NLF on a different VM/ESA system, the results obtained for some commands may differ from those depicted here.

**Important NLF Note**

In the following installation process the **PPFNAME** and the **PRODID** are referred to as **5697F42E**. For each language installation, it is necessary to replace **5697F42E** with the appropriate PPFNAME and PRODID assigned for that National Language Feature. The QMF saved segment (**DCSS**) name is referred to as **QMF710U**. For each language installation, it is necessary to replace **QMF710U** with the appropriate DCSS name assigned for that National Language Feature. Please refer to 1.2, “National Language Feature Identifications” on page 2 for the appropriate values assigned to each National Language Feature provided with QMF Version 7.

## 6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing QMF NLF using VMSES/E.

- Plan Your Installation

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

- Install the QMF NLF Product

  Use the VMFINS command to load the QMF NLF 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 29.

- Place QMF NLF Files into Production

  Once the product files have been tailored and the operation of QMF NLF 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 NLF

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 NLF 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 NLF 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**
**access 5e5 b**

The 5E5 disk contains the VMSES/E code.

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

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

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

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

**5** Load the QMF NLF 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 NLF.

**Notes:**

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

**vmfins install ppf 5697F42E {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 NLF. For example, you will need to specify your PPF override file name instead of 5697F42E 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 5697F42E QMF
            :PRODID 5697F42E%QMF?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5697F42E QMF :PRODID
            5697F42E%QMF
VMFREQ1909I 5697F42E PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5697F42E QMF :PRODID 5697F42E%QMF
            has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5697F42E QMF
            :PRODID 5697F42E%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 5697F42E QMF
            :PRODID 5697F42E%QMF are not satisfied:

     Type             Product        Component      PTF
     ------------     ----------     ----------     ----------
     Prerequisite     5697F42A
```

This message indicates that product QMF for VM V7R1M0 is a pre-requisite product for QMF NLF. You need to install this pre-requisite product before continuing the install for QMF NLF.

**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 NLF

Since QMF NLF shares the same user ID, P697F42A, and minidisks or SFS directories as QMF for VM V7 base product, at this time it is only necessary to make any required increases to DASD for addresses 2B2, 401, 400, 501 and 500. For the additional DASD space requirements to these 5 addresses, please refer to 5.3, “DASD Storage and User ID Requirements” on page 13.

## 6.4 Install QMF NLF

The *ppfname* used throughout these installation instructions is **5697F42E**, which assumes you are using the PPF supplied by IBM for QMF NLF. If you have your own PPF override file for QMF NLF, you should use your file's *ppfname* instead of **5697F42E**. The *ppfname* you use should be used **throughout** the rest of this procedure.

**1** Logon to the installation user ID **P697F42A**.

**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 NLF installation tape mounted and attached to P697F42A at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181.

**6** Install QMF NLF.

**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 (5697F42E), 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 5697F42E {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 5697F42E QMF
            :PRODID 5697F42E%QMF?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5697F42E QMF :PRODID
            5697F42E%QMF
VMFREQ2805I Product :PPF 5697F42E QMF :PRODID 5697F42E%QMF
            has passed requisite checking
VMFINT2603I Installing product :PPF 5697F42E QMF :PRODID
            5697F42E%QMF
VMFSET2760I VMFSETUP processing started for 5697F42E QMF
VMFUTL2205I Minidisk|Directory Assignments:
            String    Mode  Stat  Vdev  Label/Directory
VMFUTL2205I LOCALSAM  E      R/W  2C2   QMF2C2
VMFUTL2205I APPLY     F      R/W  2A6   QMF2A6
VMFUTL2205I           G      R/W  2A2   QMF2A2
VMFUTL2205I DELTA     H      R/W  2D2   QMF2D2
VMFUTL2205I BUILD0    I      R/W  401   QMF401
VMFUTL2205I BUILD2    J      R/W  501   QMF501
VMFUTL2205I BASE1     K      R/W  2B2   QMF2B2
VMFUTL2205I SYSTEM    L      R/O  195   SQL195
VMFUTL2205I --------  A      R/W  191   QMF191
VMFUTL2205I --------  B      R/O  5E5   MNT5E5
VMFUTL2205I --------  D      R/W  51D   MNT51D
VMFUTL2205I --------  S      R/O  190   MNT190
VMFUTL2205I --------  Y/S    R/O  19E   RE-19E
VMFSET2760I VMFSETUP processing completed successfully
VMFREC2760I VMFREC processing started
VMFREC1852I Volume 1 of 1 of INS TAPE 0000
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 145 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 Loaded 68 part(s) to BUILD0 401 (I)
VMFREC1851I (8 of 8) VMFRCALL processing BUILD500
VMFRCA2159I Loading part(s) to BUILD2 501 (J)
VMFRCA2159I Loaded 29 part(s) to BUILD2 501 (J)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully
```

**Note**

**Note:** The above console example is based on a SBCS (Single Byte Character Set) NLF installation. For a DBCS (Double Byte Charaster Set) NLF installation, the numbers vary slightly. The following differences should be observed:

- VMFRCA2159I Loaded **141** part(s) to BASE1 2B2 (K)
- VMFRCA2159I Loaded **64** part(s) to BUILD0 401 (I)

**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 NLF

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

**vmfins build ppf 5697F42E {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 5697F42E 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 NLF Into Production

### 6.5.1 Define and Build the QMF NLF Saved Segments Using VMSES/E

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

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

**Note:** The defining and building of the QMF NLF 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 **P697F42A**.

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

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

**3** Add QMF NLF segment object definitions to the SEGBLIST EXC00000 build list.

**vmfsgmap segbld esasegs segblist**

This command displays a panel for making segment updates. See Figure 13 on page 24 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 RRRRRRNNNNNNNNNNNNNNNNNNNNNNNN6.............7.............
M HLASM    DCS 4.............5.............RRRRRRRRRRRRRRR7.............

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 RRRRRRRRRRRRRRR9.............A.............B.............
  DOSINST  DCS 8.............R---------------A.............B.............

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

================================= 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 13. 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 14 on page 25 to see the Add Segment Definition panel that will be displayed.

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

 OBJNAME....:  QMF710U
 DEFPARMS...:
 SPACE......:
 TYPE.......:  SEG
 OBJDESC....:
 OBJINFO....:
 GT_16MB....:  NO
 DISKS......:
 SEGREQ.....:
 PRODID.....:  5697F42E 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 14. Add Segment Definition panel example.*

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

OBJNAME....: **QMF710U**
PRODID.....: **5697F42E QMF**

Use **QMF** for building segments from a minidisk or **QMFSFS** for building segments from SFS directories.

**F10**

**F10** will obtain the QMF NLF segment information from the 5697F42E PRODPART file. See Figure 15 on page 26 for the refreshed Add Segment definition panel that will be displayed.

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



 OBJNAME....:  QMF710U
 DEFPARMS...:  1B00-1DFF SR
 SPACE......:
 TYPE.......:  SEG
 OBJDESC....:  QMF DCSS
 OBJINFO....:  Do not overlap DB2 and GDDM base segments.  You must
            :  link to these product at addresses listed below while
            :  building the QMF DCSS.
 GT_16MB....:  YES
 DISKS......:  195 194
 SEGREQ.....:
 PRODID.....:  5697F42E QMF
 BLDPARMS...:  PPF(5697F42E QMF DSQ2UBSG)




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

**6** Go back to the Segment Map panel.

F5

**F5** will return you to the Segment Map panel. See Figure 16 on page 27 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 QMF710U  DCS 8.............9.............A.............RRRRRRRRRRRRRRR>
M BOOKTSTR DCS 8.............RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
M GCS1     SYS >NNNNNNNNNNNNNNNNNNNNNNNNNNNNNA.............B.........
M ARIQSTAT DCS 8.............WWWWWWW---------A.............B.........
M DSQBETAE DCS 8.............9.............A.............RRRRRRRRRRRRRRR>

Meg             01C-MB          01D-MB          01E-MB          01F-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789
D QMF710U  DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRE.............F.............
M BOOKTSTR DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRE.............F.............
M DSQBETAE DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRR---E.............F.............

Meg             020-MB          021-MB          022-MB          023-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789
M DB2HM69  DCS RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
M DB2HM84  DCS RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
 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 16. 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 ENTER 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 NLF 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 NLF segments.

**vmfbld ppf segbld esasegs segblist QMF710U (serviced**

**Note:** If you received the message:

```
VMFBDS2003W The SYSTEM SEGID D(51D) file has been changed and must
            be moved to the S disk.
```

then the SYSTEM SEGID file on the CMS system disk (MAINT 190) and CMS test system disk (MAINT 490) must be updated. You need to log on to your MAINT user ID and copy the SYSTEM SEGID file from the MAINT 51D disk to the MAINT 190 and MAINT 490 disks. (The SYSTEM SEGID must have a filemode of **2**.)

### 6.5.2 Copy QMF NLF Files Into Production

1. Logon to the installation user ID **P697F42A**.

2. To copy QMF NLF Test Distribution files to the QMF NLF Distribution disk when installing using minidisks:

```
access 501 e
access 500 f
vmfcopy * * e = = f (prodid 5697F42E%QMF olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the 500 distribution disk.

**Note:** When installing using Shared File System directories instead of the **access 501 e** and **access 500 f** do **access P697F42A.qmf.tdistrib e** and **access P697F42A.qmf.distrib f**.

3. To copy QMF NLF Test Production files to the QMF NLF Production disk when installing using minidisks:

```
access 401 e
access 400 f
vmfcopy * * e = = f (prodid 5697F42E%QMF olddate replace
```

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

**Note:** When installing using Shared File System directories instead of the **access 401 e** and **access 400 f** do **access P697F42A.qmf.tqmfprod e** and **access P697F42A.qmf.qmfprod f**.

**QMF NLF is now installed and built on your system.**

## 6.6 Post-Installation Considerations

Now that you have completed the VMSES/E installation of QMF NLF V7 and built the QMF DCSS, you must follow the steps in *Installing and Managing QMF on VM/ESA* (GC27-0720) to install QMF NLF V7 into the DB2 for VM database and run the IVP. *Installing and Managing QMF on VM/ESA* also contains information on starting QMF NLF.

# 7.0 Service Instructions

This section of the Program Directory contains the procedure to install CORrective service to QMF NLF. VMSES/E is used to install service for QMF NLF.

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.

**Important NLF Note**

In the following service process the **PPFNAME** and the **PRODID** are referred to as **5697F42E**. For each language installation, it is necessary to replace **5697F42E** with the appropriate PPFNAME and PRODID assigned for that National Language Feature. The QMF saved segment (**DCSS**) name is referred to as **QMF710U**. For each language installation, it is necessary to replace **QMF710U** with the appropriate DCSS name assigned for that National Language Feature. Please refer to 1.2, "National Language Feature Identifications" on page 2 for the appropriate values assigned to each National Language Feature provided with QMF Version 7.

## 7.1 VMSES/E Service Process Overview

The following is a brief description of the main steps in servicing QMF NLF using VMSES/E.

- Setup Environment

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

- Merge Service

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

- Receive Service

  The VMFREC command receives service from the delivery media and places it on the Delta disk.

- Apply Service

  The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.

- Reapply Local Service (if applicable)

All local service (mods) must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. Refer to Chapter 7 in the *VM/ESA Service Guide* for this procedure.

- Build New Levels

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

- Place the New Service into Production

  Once the service is satisfactorily tested it should be put into production by copying the new service to the production disk, re-saving the NSS (Named Saved System) or DCSS (Discontiguous Saved Segments), etc.

  **Note:** You may want to build a test NSS or DCSS first. After successful test you can re-save the new NSS or DCSS.

## 7.2 Servicing QMF NLF

### 7.2.1 Prepare to Receive Service

**Electronic Service (envelope file)**

If you have received the service electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompact the envelope file to your A-disk. The decompaction is currently done by using the DETERSE MODULE. The file names of the decompacted files will be of the format:

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

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

The *ppfname* used throughout these servicing instructions is **5697F42E**, which assumes you are using the PPF supplied by IBM for QMF NLF. If you have your own PPF override file for QMF NLF, you should use your file's *ppfname* instead of **5697F42E**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

**1** Logon to QMF NLF service user ID **P697F42A**

**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 NLF CORrective service tape mounted and attached to ***P697F42A***. (If you have a SERVLINK file make sure that it is available on the A-disk.)

**4** Establish the correct minidisk access order.

**vmfsetup 5697F42E {QMF | QMFSFS}**

5697F42E is the PPF that was shipped with the product. If you have your own PPF override you should substitute your PPF name for 5697F42E.

Use **QMF** for installing on minidisks or **QMFSFS** for installing in Shared File System directories.

**5** Receive the documentation.

**a** If receiving the service from tape

**vmfrec info**

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

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

**vmfrec info (env vlst***num*

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

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

**vmfview receive**

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

**7** Read the product memo (5697F42E MEMO) before going on.

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

**vmfsetup 5697F42E {QMF | QMFSFS}**

Use **QMF** for installing on minidisks or **QMFSFS** for installing in Shared File System directories.

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

**vmfmrdsk 5697F42E {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.

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

**vmfview mrd**

## 7.2.2 Receive the Service

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

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

**1** Receive the service.

**a** If receiving the service from tape

**vmfrec ppf 5697F42E {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.

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

**vmfrec ppf 5697F42E {QMF | QMFSFS} (env vptf***num*

Use **QMF** for installing on minidisks or **QMFSFS** for installing in Shared File System directories.

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

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

**vmfview receive**

## 7.2.3 Apply the Service

**1** Apply the new service.

**vmfapply ppf 5697F42E {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 NLF. 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:

- **esaIcl** should be **5697F42E**
- **esa** should be **5697F42E**
- *compname* should be **QMF** or **QMFSFS** (minidisk or SFS)
- *appid* should be **5697F42E**
- *fm-local* should be the fm of 2C2
- *fm-applyalt* 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” on page 35.

## 7.2.4 Update the Build Status Table

**1** Update the Build Status Table with serviced parts.

**vmfbld ppf 5697F42E {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 5697F42E $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 5697F42E $PPF
            on 191 (A) from level $PFnnnnn
```

| | |
|---|---|
| **vmfppf 5697F42E *** | **Note:** If you've created your own PPF override then use your PPF name instead of 5697F42E. |
| **copyfile 5697F42E $PPF a = = d (olddate replace**<br>**erase 5697F42E $PPF a** | |
| | **Note: Do not** use your own PPF name in place of 5697F42E for the COPYFILE and ERASE commands. |
| **vmfbld ppf 5697F42E {QMF \| QMFSFS} (status** | |
| **1** | Re-issue VMFBLD to complete updating the build status table.<br><br>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 NLF serviced parts.

**vmfbld ppf 5697F42E {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 NLF Service Into Production

### 7.3.1 Rebuild the Saved Segments

**Note:** Before saving the QMF DCSS, QMF710U, you can build a test DCSS. The commands to do this for a test DCSS called QMF710T are below. You must be linked to the DB2 for VM 195 disk as 195 and the GDDM production disk as 194.

- VMLINK SQLDBA 195 <195
- VMLINK GDDM <194
- DEFSEG QMF710T 1B00-1DFF SR
- DSQ2ESEG QMF710T

You can test the QMF710T DCSS by using the test QMF libraries and the test DCSS.

Once satisfied with the test, you can then save the production DCSS, QMF710U, using the process below.

**1** Prepare to build the segments.

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

**ipl cms parm clear nosprof instseg no**

***** DO NOT press ENTER 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 NLF 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.

**vmfbld ppf segbld esasegs segblist QMF710U (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.

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**

## 7.3.2 Copy the New QMF NLF Serviced Files Into Production

1 Logon to the installation user ID **P697F42A**.

2 To copy QMF NLF Test Distribution files to the QMF NLF Distribution disk when installing using minidisks:

```
access 501 e
access 500 f
vmfcopy * * e = = f (prodid 5697F42E%QMF olddate replace
```

The VMFCOPY command will update the VMSES PARTCAT file on the 500 distribution disk.

**Note:** When installing using Shared File System directories instead of the **access 501 e** and **access 500 f** do **access P697F42A.qmf.tdistrib e** and **access P697F42A.qmf.distrib f**.

3 To copy QMF NLF Test Production files to the QMF NLF Production disk when installing using minidisks:

```
access 401 e
access 400 f
vmfcopy * * e = = f (prodid 5697F42E%QMF olddate replace
```

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

**Note:** When installing using Shared File System directories instead of the **access 401 e** and **access 400 f** do **access P697F42A.qmf.tqmfprod e** and **access P697F42A.qmf.qmfprod f**.

**You have finished servicing QMF NLF.**

# Appendix A. Create Product Parameter File (PPF) Override

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

**Note:** Do **not** modify the product supplied 5697F42E $PPF or 5697F42E PPF files to change the file pool name or any other installation parameters. If the 5697F42E $PPF file is serviced, the existing $PPF file will be replaced, and any changes to that file will be lost; by creating your own $PPF override, your updates will be preserved.

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

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

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

*overname* is the PPF override file name (such as 'myqmf') that you want to use.

*fm* is an appropriate file mode. If you create this file yourself, specify a file mode of A.

If you modify an existing override file, specify a file mode of A or D, based on where the file currently resides (A being the file mode of a R/W 191 minidisk, or equivalent; D, that of the MAINT 51D minidisk).

**2** Create (or modify as required) the Variable Declarations (:DCL.) section for the qmfsfs override area, so that it resembles the :DCL. section shown below. This override will be used for the installation of QMF NLF.

```
:OVERLST. QMFSFS
*
* ================================================================== *
* Override Section for Initial Installation (Using SFS Directories)   *
* ================================================================== *
:QMFSFS. QMFSFS 5697F42E
:DCL. REPLACE
&INST191    DIR MYPOOL1:P697F42A.
&SAMPZ      DIR MYPOOL1:P697F42A.QMF.SAMPLE
&DELTZ      DIR MYPOOL1:P697F42A.QMF.DELTA
&APPLX      DIR MYPOOL1:P697F42A.QMF.APPLYALT
&APPLZ      DIR MYPOOL1:P697F42A.QMF.APPLYPROD
&BAS1Z      DIR MYPOOL1:P697F42A.QMF.OBJECT
&BLD0Z      DIR MYPOOL1:P697F42A.QMF.TQMFPROD
&DISK9      DIR MYPOOL1:P697F42A.QMF.TDISTRIB
&BLD1Z      DIR MYPOOL1:P697F42A.QMF.QMFPROD
&DISK10     DIR MYPOOL1:P697F42A.QMF.DISTRIB
&QMFID1     USER  P697F42A
:EDCL.
:END.
*
```

(This override will replace the :DCL. section of the qmfsfs override area of the 5697F42E $PPF file.)

**3** If your $PPF override file was created at file mode A, copy it to file mode D—the Software Inventory minidisk (MAINT 51D). Then erase it from file mode A.

**file**
**copyfile** *overname* **$PPF** *fm* **= = d (olddate**
**erase** *overname* **$PPF** *fm*

**4** Compile your changes to create the usable *overname* PPF file.

**vmfppf** *overname* **QMFSFS**

where *overname* is the file name of your $PPF override file.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5697F42E as the PPF name to be used for those VMSES/E commands that require a PPF name.

# Reader's Comments

**Query Management Facility National Language Feature for VM/ESA Version 7 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.

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| 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 |

- 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 National Language Feature for VM/ESA Development group:

IBM Corporation
P. O. Box 49023
San Jose, CA 95161-9023
Attention: QMF Department, J49

Program Number: 5697-F42 6xxx
6xxx
6xxx
6xxx

Printed in U.S.A.

GI10-8331-00