IBM

Program Directory for

Query Management Facility

for VM/ESA

National Language Features

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

GI10-4965-00

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

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Notices

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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 Version 6 National Language Feature** (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 12 describes the IBM support available for QMF NLF.

- 4.0, "Program and Service Level Information" on page 14 lists the APARs (program level) and PTFs (service level) incorporated into QMF NLF.

- 5.0, "Installation Requirements and Considerations" on page 15 identifies the resources and considerations for installing and using QMF NLF.

- 6.0, "Installation Instructions" on page 18 provides detailed installation instructions for QMF NLF.

- 7.0, "Service Instructions" on page 33 provides detailed servicing instructions for QMF NLF.

Before installing QMF NLF, read 3.1, "Preventive Service Planning" on page 12. 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.

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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 6. 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 6

In this document the **PPFNAME** and the **PRODID** are referred to as **5648A70n**. For each language installation, it is necessary to replace **5648A70n** 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 **QMF610n**. For each language installation, it is necessary to replace **QMF610n** 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 6.

Figure 1. National Language Identifiers			
Language	**Language Letter Identifier**	**PPFNAME and PRODID**	**DCSS NAME**
Brazilian Portuguese	P	5648A70G	QMF610P
Danish	Q	5648A70M	QMF610Q
French	F	5648A70B	QMF610F
German	D	5648A70C	QMF610D
Italian	I	5648A70H	QMF610I
Japanese	K	5648A70D	QMF610K
Korean	H	5648A70N	QMF610H
Uppercase English	U	5648A70E	QMF610U
Simplified Chinese	R	5648A70F	QMF610R
Spanish	S	5648A70P	QMF610S
Swedish	V	5648A70J	QMF610V
Swiss French	Y	5648A70Q	QMF610Y
Swiss German	Z	5648A70K	QMF610Z

2.0 Program Materials

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

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 18 for more information about how to install the program. Figure 2 describes the tape. Figure 4 on page 7 describes the file content of the program tape.

If you ordered the QMF NLF with QMF for Windows, you will receive one tape for the QMF NLF on one of the distribution mediums indicated above. In addition you will receive one CD-ROM for QMF for Windows Version 6. The QMF NLF 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 18 for more information about how to install QMF NLF. Figure 3 on page 5 describes the tape for the QMF NLF when ordered with QMF for Windows. Figure 4 on page 7 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 2 (Page 1 of 3). Basic Material: Program Tape - QMF NLF				
Feature Number	**Medium**	**Physical Volume**	**Tape Content**	**External Tape Label**
5989	3480 cart.	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)
6745	4mm cart.	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)
5988	6250 tape	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)
6744	1/4" cart.	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
			Figure 2 (Page 2 of 3). Basic Material: Program Tape - QMF NLF	
6608	3480 cart.	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6718	4mm cart.	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6639	6250 tape	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6624	1/4" cart.	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6612	3480 cart.	1	QMF for VM V6 French	QMF for VM V6 (F)
6693	4mm cart.	1	QMF for VM V6 French	QMF for VM V6 (F)
6643	6250 tape	1	QMF for VM V6 French	QMF for VM V6 (F)
5978	1/4" cart.	1	QMF for VM V6 French	QMF for VM V6 (F)
6615	3480 cart.	1	QMF for VM V6 German	QMF for VM V6 (D)
6694	4mm cart.	1	QMF for VM V6 German	QMF for VM V6 (D)
6647	6250 tape	1	QMF for VM V6 German	QMF for VM V6 (D)
5991	1/4" cart.	1	QMF for VM V6 German	QMF for VM V6 (D)
6618	3480 cart.	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6740	4mm cart.	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6651	6250 tape	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6644	1/4" cart.	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6622	3480 cart.	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6695	4mm cart.	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6672	6250 tape	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6487	1/4" cart.	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6625	3480 cart.	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6736	4mm cart.	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6674	6250 tape	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6636	1/4" cart.	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6641	3480 cart.	1	QMF for VM V6 Uppercase English	QMF for VM V6 (U)
6732	4mm cart.	1	QMF for VM V6 Uppercase English	QMF for VM V6 (U)
6683	6250 tape	1	QMF for VM V6 Uppercase English	QMF for VM V6 (U)
6630	1/4" cart.	1	QMF for VM V6 Uppercase English	QMF for VM V6 (U)
5976	3480 cart.	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)
6765	4mm cart.	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)
5975	6250 tape	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
			Figure 2 (Page 3 of 3). Basic Material: Program Tape - QMF NLF	
6764	1/4" cart.	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)
6628	3480 cart.	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6749	4mm cart.	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6675	6250 tape	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6748	1/4" cart.	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6631	3480 cart.	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6767	4mm cart.	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6676	6250 tape	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6766	1/4" cart.	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6634	3480 cart.	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)
6755	4mm cart.	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)
6677	6250 tape	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)
6754	1/4" cart.	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)
6637	3480 cart.	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)
6769	4mm cart.	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)
6680	6250 tape	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)
6768	1/4" cart.	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
			Figure 3 (Page 1 of 3). Basic Material: Program Tape - QMF NLF when ordered with QMF for Windows	
6805	3480 cart.	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)
6806	4mm cart.	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)
6807	6250 tape	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)
6804	1/4" cart.	1	QMF for VM V6 Brazilian Portuguese	QMF for VM V6 (P)
6771	3480 cart.	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6772	4mm cart.	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6773	6250 tape	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6770	1/4" cart.	1	QMF for VM V6 Danish	QMF for VM V6 (Q)
6783	3480 cart.	1	QMF for VM V6 French	QMF for VM V6 (F)
6784	4mm cart.	1	QMF for VM V6 French	QMF for VM V6 (F)
6785	6250 tape	1	QMF for VM V6 French	QMF for VM V6 (F)

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
			Figure 3 (Page 2 of 3). Basic Material: Program Tape - QMF NLF when ordered with QMF for Windows	
6782	1/4" cart.	1	QMF for VM V6 French	QMF for VM V6 (F)
6775	3480 cart.	1	QMF for VM V6 German	QMF for VM V6 (D)
6776	4mm cart.	1	QMF for VM V6 German	QMF for VM V6 (D)
6777	6250 tape	1	QMF for VM V6 German	QMF for VM V6 (D)
6774	1/4" cart.	1	QMF for VM V6 German	QMF for VM V6 (D)
6809	3480 cart.	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6812	4mm cart.	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6813	6250 tape	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6808	1/4" cart.	1	QMF for VM V6 Italian	QMF for VM V6 (I)
6779	3480 cart.	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6780	4mm cart.	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6781	6250 tape	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6778	1/4" cart.	1	QMF for VM V6 Japanese	QMF for VM V6 (K)
6787	3480 cart.	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6788	4mm cart.	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6789	6250 tape	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6786	1/4" cart.	1	QMF for VM V6 Korean	QMF for VM V6 (H)
6791	3480 cart.	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)
6792	4mm cart.	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)
6793	6250 tape	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)
6790	1/4" cart.	1	QMF for VM V6 Simplified Chinese	QMF for VM V6 (R)
6795	3480 cart.	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6796	4mm cart.	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6797	6250 tape	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6794	1/4" cart.	1	QMF for VM V6 Spanish	QMF for VM V6 (S)
6815	3480 cart.	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6816	4mm cart.	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6817	6250 tape	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6814	1/4" cart.	1	QMF for VM V6 Swedish	QMF for VM V6 (V)
6823	3480 cart.	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)
6824	4mm cart.	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)

Figure 3 (Page 3 of 3). Basic Material: Program Tape - QMF NLF when ordered with QMF for Windows				
Feature Number	**Medium**	**Physical Volume**	**Tape Content**	**External Tape Label**
6825	6250 tape	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)
6822	1/4" cart.	1	QMF for VM V6 Swiss French	QMF for VM V6 (Y)
6819	3480 cart.	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)
6820	4mm cart.	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)
6821	6250 tape	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)
6818	1/4" cart.	1	QMF for VM V6 Swiss German	QMF for VM V6 (Z)

Figure 4. 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
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 each of the following publications listed in Figure 5 on page 8 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 6 on page 8 for a list of the countries that provide translated publications and the form number for each translated publication.

Figure 5. Basic Material: Unlicensed Publications - QMF NLF	
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

Figure 6 (Page 1 of 2). Translated Program Publications - QMF NLF		
National Language	**Publication Title**	**Form Number**
Brazilian Portuguese	Introducing QMF	G517-6779
Brazilian Portuguese	QMF Reference	S517-6780
Brazilian Portuguese	Using QMF	S517-6781
French	Introducing QMF	GC11-1529
French	QMF Reference	SC11-1531
French	Using QMF	SC11-1532
German	Introducing QMF	GC12-2669
German	QMF Reference	SC12-2670
German	Using QMF	SC12-2671
Italian	Introducing QMF	GC13-2834
Italian	QMF Reference	SC13-2831
Italian	Using QMF	SC13-2832
Japanese	Introducing QMF	GD88-7235
Japanese	QMF Reference	SD88-7236
Japanese	Using QMF	SD88-7237
Japanese	Developing QMF Applications	SD88-7238

Figure 6 (Page 2 of 2). Translated Program Publications - QMF NLF		
National Language	**Publication Title**	**Form Number**
Japanese	QMF Messages and Codes	GD88-7239
Korean	Introducing QMF	GA30-0658
Korean	QMF Reference	SA30-0659
Korean	Using QMF	SA30-0662
Korean	Developing QMF Applications	SA30-0660
Korean	QMF Messages and Codes	GA30-0661
Simplified Chinese	Introducing QMF	GC84-0762
Spanish	Introducing QMF	GC10-3381
Spanish	QMF Reference	SC10-3382
Spanish	Using QMF	SC10-3383

If you ordered QMF NLF with QMF for Windows, you also receive one copy of each of the following publications listed in Figure 7 for QMF for Windows. 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 8 for a list of the countries that provide translated publications and the form number for each translated publication.

Figure 7. 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

Figure 8 (Page 1 of 2). Translated Program Publications - QMF for Windows		
National Language	**Publication Title**	**Form Number**
Brazilian Portuguese	Getting Started with QMF for Windows	S517-6785
Brazilian Portuguese	Installing and Managing QMF for Windows	G517-6783
French	Getting Started with QMF for Windows	SC11-1533
French	Installing and Managing QMF for Windows	GC11-1530
German	Getting Started with QMF for Windows	SC12-2672
Italian	Getting Started with QMF for Windows	SC13-2833
Japanese	Getting Started with QMF for Windows	GD88-7240

Figure 8 (Page 2 of 2). Translated Program Publications - QMF for Windows		
National Language	**Publication Title**	**Form Number**
Japanese	Installing and Managing QMF for Windows	GD88-7241
Korean	Getting Started with QMF for Windows	SA30-0663
Simplified Chinese	Getting Started with QMF for Windows	SC84-0763
Spanish	Getting Started with QMF for Windows	SC10-3384

2.4 Microfiche Support

There is no microfiche for QMF NLF.

2.5 Publications Useful During Installation

The publications listed in Figure 9 or Figure 10, depending on your VM/ESA release, may be useful during the installation of QMF NLF. 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 9. 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 10 (Page 1 of 2). 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

Figure 10 (Page 2 of 2). Publications Useful During Installation / Service on VM/ESA Version 2.3.0

Publication Title	Form Number
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 11. PSP Upgrade and Subset ID in Retain				
COMPID	**Release**	**Upgrade**	**Subset**	**National Language**
566872101	69B	DB2VSEVM610	QMF/69B	Brazilian Portuguese
566872101	695	DB2VSEVM610	QMF/695	Danish
566872101	696	DB2VSEVM610	QMF/696	French
566872101	697	DB2VSEVM610	QMF/697	German
566872101	698	DB2VSEVM610	QMF/698	Italian
566872101	699	DB2VSEVM610	QMF/699	Japanese
566872101	69A	DB2VSEVM610	QMF/69A	Korean
566872101	691	DB2VSEVM610	QMF/691	Uppercase English
566872101	693	DB2VSEVM610	QMF/693	Simplified Chinese
566872101	69C	DB2VSEVM610	QMF/69C	Spanish
566872101	69D	DB2VSEVM610	QMF/69D	Swedish
566872101	69E	DB2VSEVM610	QMF/69E	Swiss French
566872101	69F	DB2VSEVM610	QMF/69F	Swiss German

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 12 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for each QMF NLF for Version 6.

COMPID	Release	Component Name	National Language	FESN
Figure 12. COMPIDs, Release and FESN Numbers in Retain				
566872101	69B	QMF/VM PORTUGUESE	Brazilian Portuguese	6472101
566872101	695	QMF/VM DANISH	Danish	6472101
566872101	696	QMF/VM FRENCH	French	6472101
566872101	697	QMF/VM GERMAN	German	6472101
566872101	698	QMF/VM ITALIAN	Italian	6472101
566872101	699	QMF/VM JAPANESE	Japanese	6472101
566872101	69A	QMF/VM KOREAN	Korean	6472101
566872101	691	QMF/VM U/C ENGLISH	Uppercase English	6472101
566872101	693	QMF/VM SIMP CHINESE	Simplified Chinese	6472101
566872101	69C	QMF/VM SPANISH	Spanish	6472101
566872101	69D	QMF/VM SWEDISH	Swedish	6472101
566872101	69E	QMF/VM SWISS FRENCH	Swiss French	6472101
566872101	69F	QMF/VM SWISS GERMAN	Swiss German	6472101

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of QMF NLF 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 NLF 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 NLF 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 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

The QMF NLF requires the same operating system that the QMF for VM V6 base product was installed on. The base product supports the following VM operating systems:

- VM/ESA Version 2 Release 2.0 or higher

5.2.2 Other Program Product Requirements

You must install the QMF for VM V6 base product prior to installing a QMF NLF. All product requisities of QMF for VM V6 base are also product requisites of QMF NLF. For details, see the list of base product requisites in the QMF for VM V6 base product program directory. The QMF for VM V6 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--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 NLF" step 6 on page 20, rather than after you have installed this product.

5.3 DASD Storage and User ID Requirements

Figure 13 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 19 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 NLF" step 6 on page 20.

- 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 V6 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 13 is the DASD table, which has been taken from the QMF for VM V6 base product program directory and updated accordingly to reflect the new DASD requirements for disks containing both the QMF for VM V6 base product and a single QMF NLF.

Figure 13 (Page 1 of 2). DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
P648A70A	2B2	3390 3380 9345	32 37 37	44400	5500	Contains all the base code shipped with QMF NLF **VMSYS:P648A70A.QMF.OBJECT**

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.

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
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 NLF **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 NLF that is currently in production. **VMSYS:P648A70A.QMF.PRODAPPLY**
P648A70A	501	3390 3380 9345	19 22 22	26400	3300	Test Build disk for QMF NLF Distribution Code. After testing, copy to 500 disk. **VMSYS:P648A70A.QMF.TDISTRIB**
P648A70A	500	3390 3380 9345	19 22 22	26400	3300	QMF NLF Distribution Code minidisk. **VMSYS:P648A70A.QMF.DISTRIB**
P648A70A	401	3390 3380 9345	23 26 26	31200	3900	Test Build disk for QMF NLF Production Code. After testing, copy to 400 disk. **VMSYS:P648A70A.QMF.TQMFPROD**
P648A70A	400	3390 3380 9345	23 26 26	31200	3900	QMF NLF 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 13 (Page 2 of 2). DASD Storage Requirements for Target Minidisks

Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3380 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size. 19,950 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 2.2.0 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

Please refer to section 1.2, "National Language Feature Identifications" on page 2 for necessary NLF considersations for this Installation Instructions section.

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

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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 32.

- 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   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
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 5648A70n {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 5648A70n 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 5648A70n QMF
            :PRODID. 5648A70n%QMF?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5648A70n QMF :PRODID
            5648A70n%QMF
VMFREQ1909I 5648A70n PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5648A70n QMF :PRODID 5648A70n%QMF
            has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5648A70n QMF
            :PRODID 5648A70n%QMF
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFINS2760I VMFINS processing completed successfully
```

7 Review the install message log ($VMFINS $MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see *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, P648A70A, and minidisks or SFS directories as QMF for VM V6 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 16.

6.4 Install QMF NLF

The *ppfname* used throughout these installation instructions is **5648A70n**, 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 **5648A70n**. 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   If either 5E5 or 51D is in a shared file system
===> input /**/   (SFS) then substitute your SFS directory name in
===> input 'access 5e5 b'   the access command.
===> input 'access 51d d'
===> file

3 Run the profile to access MAINT's minidisks.

profile

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

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

link MAINT 51d 51d mr
access 51d d

5 Have the QMF NLF 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 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 (5648A70n), 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 5648A70n {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 5648A70n QMF
            :PRODID. 5648A70n%QMF?
            Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5648A70n QMF :PRODID
            5648A70n%QMF
VMFREQ2805I Product :PPF 5648A70n QMF :PRODID 5648A70n%QMF
            has passed requisite checking
VMFINT2603I Installing product :PPF 5648A70n QMF :PRODID
            5648A70n%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 143 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 68 part(s) to BUILD0 401 (I)
VMFREC1851I (8 of 8) VMFRCALL processing BUILD500
VMFRCA2159I Loading part(s) to BUILD2 501 (J)
VMFRCA2159I Loaded 27 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 **139** 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 5648A70n {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 5648A70n 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.

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 16 on page 29.

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 **P648A70A**.

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 14 on page 27 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 RRRRRRNNNNNNNNNNNNNNNNNNNNNNNNNNN6..............7..............
M HLASM     DCS 4..............5..............RRRRRRRRRRRRRRRRRR7..............

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 RRRRRRRRRRRRRRRRRD..............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 14. 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 15 on page 28 to see the Add Segment Definition panel that will be displayed.

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

        OBJNAME....:  QMF610n
        DEFPARMS...:
        SPACE......:
        TYPE.......:  SEG
        OBJDESC....:
        OBJINFO....:
        GT_16MB....:  NO
        DISKS......:
        SEGREQ.....:
        PRODID.....:  5648A70n 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 15. 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....: **QMF610n**   Use **QMF** for building segments from a minidisk or
PRODID.....: **5648A70n QMF**   **QMFSFS** for building segments from SFS
                                             directories.

F10   **F10** will obtain the QMF NLF segment information
                                             from the 5648A70n PRODPART file. See
                                             Figure 16 on page 29 for the refreshed Add
                                             Segment definition panel that will be displayed.

```
┌─────────────────────────────────────────────────────────────────────────┐
│                       Add Segment Definition              More: +         │
│                                                      Lines 1 to nn of nn   │
│                                                                           │
│                                                                           │
│                                                                           │
│     OBJNAME....:  QMF610n                                                 │
│     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.....:  5648A70n QMF                                            │
│     BLDPARMS...:  PPF(5648A70n QMF DSQ2nBSG)                              │
│                                                                           │
│                                                                           │
│                                                                           │
│                                                                           │
│     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 16. 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).

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 17 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 QMF610n  DCS 8..............9...............A...............RRRRRRRRRRRRRRRRRR>
M BOOKTSTR DCS 8..............RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
M GCS1     SYS >NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNA...............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 QMF610n  DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRE...............F...............
M BOOKTSTR DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRE...............F...............
M DSQBETAE DCS >RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR---E...............F...............


Meg              020-MB         021-MB         022-MB         023-MB
St Name    Typ 0123456789ABCDEF0123456789ABCDEF0123456789ABCDEF0123456789
M DB2HM69  DCS RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
M DB2HM84  DCS RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR>
 F1=Help     F2=Chk Obj   F3=Exit     F4=Chg Obj   F5=File      F6=Save
 F7=Bkwd     F8=Fwd       F9=Retrieve F10=Add Obj  F11=Del Obj  F12=Cancel
 ====>
```

Figure 17. Segment Map panel with added segments.

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

[F5]

Ready; T=nn.nn/nn.nn hh:mm:ss

F5 saves all changed information and exits the map panel.

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!***

access (noprof

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).

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 QMF610n (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 To copy QMF NLF Test Distribution files to QMF NLF Distribution disk when installing using minidisks:

access 501 e
access 500 f
vmfcopy * * e = = f (prodid 5648A70n%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 NLF Test Production files to QMF NLF Production disk when installing using minidisks:

access 401 e
access 400 f
vmfcopy * * e = = f (prodid 5648A70n%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 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 V6 and built the QMF DCSS, you must follow the steps in *Installing and Managing QMF on VM/ESA* (GC26-9573) to install QMF NLF V6 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

Please refer to sections 1.2, "National Language Feature Identifications" on page 2 for necessary NLF considersations for this Service Instructions section.

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 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 NLF

7.2.1 Prepare to Receive Service

The *ppfname* used throughout these servicing instructions is **5648A70n**, 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 **5648A70n**. 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 **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 NLF CORrective service tape mounted and attached to **P648A70A**.

4 Establish the correct minidisk access order.

**vmfsetup 5648A70n {QMF	QMFSFS}**	
	5648A70n is the PPF that was shipped with the product. If you have your own PPF override you should substitute your PPF name for 5648A70n.
	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.

> ┌─ **Electronic Service** ──┐
>
> If you are receiving service from ServiceLink (electronic service) see Appendix A, 'Receiving Service for VMSES Envelopes', section Receive Service Documentation, in the *VM/ESA Service Guide*. Remember to substitute the *ppfname* and *compname* used for servicing QMF NLF in the instructions shown in that Appendix. Then return back to this program directory and continue with step 7 below.
>
> └──┘

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

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

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

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

vmfmrdsk 5648A70n {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 NLF 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 5648A70n {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 5648A70n {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:

- **esalcl** should be **5648A70n**
- **esa** should be **5648A70n**
- *compname* should be **QMF** or **QMFSFS** (minidisk or SFS)
- *appid* should be **5648A70n**
- *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 5648A70n {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.

If the $PPF files have been serviced you will get the following prompt:

```
VMFBLD2185R The following source product parameter files have been
            serviced:
VMFBLD2185R 5648A70n $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 5648A70n $PPF
            on 191 (A) from level $PFnnnnn
```

vmfppf 5648A70n *   **Note:** If you've created your own PPF override then use your PPF name instead of 5648A70n.

copyfile 5648A70n $PPF a = = d (olddate replace
erase 5648A70n $PPF a

                                                  Note: **Do not** use your own PPF name in place of 5648A70n for the COPYFILE and ERASE commands.

vmfbld ppf 5648A70n {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 NLF serviced parts.

vmfbld ppf 5648A70n {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

1 Prepare to build the segments.

a IPL CMS to clear the virtual storage

ipl cms parm clear nosprof instseg no

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

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

access (noprof

Bypass the execution of the PROFILE EXEC.

b Access the VMSES/E code

access 5e5 b

c Establish write access the Software Inventory Disk

link MAINT 51d 51d mr
access 51d d

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.

2 Re-save the QMF NLF segments.

vmfbld ppf segbld esasegs segblist QMF610n (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 NLF Serviced Files Into Production

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

access 501 e
access 500 f
vmfcopy * * e = = f (prodid 5648A70n%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 NLF Test Production files to QMF NLF Production disk when installing using minidisks:

access 401 e
access 400 f
vmfcopy * * e = = f (prodid 5648A70n%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**.

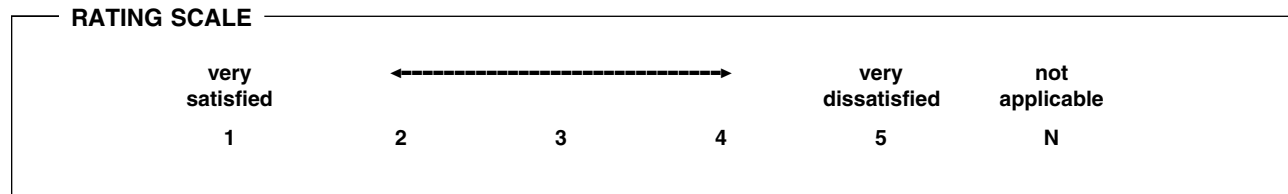## You have finished servicing QMF NLF.

Reader's Comments

Query Management Facility National Language Feature Version 6 Release 1.0

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         1          2          3          4                        5            N

└────────────────────────────────────────────────────────────────────────────────────
```

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

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

  □ Independent
  □ Package

    What type of package was ordered?

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        □ 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:

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