



**Program Directory for
Query Management Facility
for VSE/ESA®**

National Language Features

Version 07 Release 02

Program Number 5697-F42

for Use with
VSE/ESA

Document Date: March 2002

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Note!

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

This program directory, dated March 2002, applies to Query Management Facility for VSE/ESA National Language Features (QMF™ NLF), Version 07 Release 02, 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 VSE/ESA National Language Features Version 07 Release 02** (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 2 identifies the basic and optional program materials and documentation for QMF NLF.
- 3.0, "Program Support" on page 7 describes the IBM support available for QMF NLF.
- 4.0, "Program and Service Level Information" on page 9 lists the APARs (program level) and PTFs (service level) incorporated into QMF NLF.
- 5.0, "Installation Requirements and Considerations" on page 10 identifies the resources and considerations for installing and using QMF NLF.
- 6.0, "Installation Instructions" on page 11 provides detailed installation instructions for QMF NLF.

Before installing QMF NLF, read 3.1, "Preventive Service Planning" on page 7. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

This is the National Language Feature of the Query Management Facility for VSE/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.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for QMF NLF 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:

- The basic and optional program materials available with this program

2.1 Basic Machine-Readable Material

In addition to the QMF Base English tape, you will receive the QMF NLF tape in one of the following formats:

- 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 MSHP. See 6.0, "Installation Instructions" on page 11 for more information about how to install the program. Figure 1 describes the tape or cartridge. Figure 2 on page 4 describes the file content of the program tape or cartridge.

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

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
ALL	ALL	1 of 2	QMF for VSE 7.2 English	QMF for VSE 7.2 (E)
6145	3480 cart.	2 of 2	QMF for VSE 7.2 Brazilian Portuguese	QMF for VSE 7.2 (P)
6146	4mm cart.	2 of 2	QMF for VSE 7.2 Brazilian Portuguese	QMF for VSE 7.2 (P)
6147	6250 tape	2 of 2	QMF for VSE 7.2 Brazilian Portuguese	QMF for VSE 7.2 (P)
6144	1/4" cart.	2 of 2	QMF for VSE 7.2 Brazilian Portuguese	QMF for VSE 7.2 (P)
6212	3480 cart.	2 of 2	QMF for VSE 7.2 Canadian French	QMF for VSE 7.2 (C)
6213	4mm cart.	2 of 2	QMF for VSE 7.2 Canadian French	QMF for VSE 7.2 (C)
6214	6250 tape	2 of 2	QMF for VSE 7.2 Canadian French	QMF for VSE 7.2 (C)

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

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
6211	1/4" cart.	2 of 2	QMF for VSE 7.2 Canadian French	QMF for VSE 7.2 (C)
6100	3480 cart.	2 of 2	QMF for VSE 7.2 French	QMF for VSE 7.2 (F)
6101	4mm cart.	2 of 2	QMF for VSE 7.2 French	QMF for VSE 7.2 (F)
6102	6250 tape	2 of 2	QMF for VSE 7.2 French	QMF for VSE 7.2 (F)
6099	1/4" cart.	2 of 2	QMF for VSE 7.2 French	QMF for VSE 7.2 (F)
6121	3480 cart.	2 of 2	QMF for VSE 7.2 German	QMF for VSE 7.2 (D)
6122	4mm cart.	2 of 2	QMF for VSE 7.2 German	QMF for VSE 7.2 (D)
6123	6250 tape	2 of 2	QMF for VSE 7.2 German	QMF for VSE 7.2 (D)
6120	1/4" cart.	2 of 2	QMF for VSE 7.2 German	QMF for VSE 7.2 (D)
6185	3480 cart.	2 of 2	QMF for VSE 7.2 Italian	QMF for VSE 7.2 (I)
6186	4mm cart.	2 of 2	QMF for VSE 7.2 Italian	QMF for VSE 7.2 (I)
6187	6250 tape	2 of 2	QMF for VSE 7.2 Italian	QMF for VSE 7.2 (I)
6184	1/4" cart.	2 of 2	QMF for VSE 7.2 Italian	QMF for VSE 7.2 (I)
6197	3480 cart.	2 of 2	QMF for VSE 7.2 Japanese	QMF for VSE 7.2 (K)
6198	4mm cart.	2 of 2	QMF for VSE 7.2 Japanese	QMF for VSE 7.2 (K)
6199	6250 tape	2 of 2	QMF for VSE 7.2 Japanese	QMF for VSE 7.2 (K)
6196	1/4" cart.	2 of 2	QMF for VSE 7.2 Japanese	QMF for VSE 7.2 (K)
6129	3480 cart.	2 of 2	QMF for VSE 7.2 Korean	QMF for VSE 7.2 (H)
6130	4mm cart.	2 of 2	QMF for VSE 7.2 Korean	QMF for VSE 7.2 (H)
6131	6250 tape	2 of 2	QMF for VSE 7.2 Korean	QMF for VSE 7.2 (H)
6128	1/4" cart.	2 of 2	QMF for VSE 7.2 Korean	QMF for VSE 7.2 (H)
6137	3480 cart.	2 of 2	QMF for VSE 7.2 Spanish	QMF for VSE 7.2 (S)
6138	4mm cart.	2 of 2	QMF for VSE 7.2 Spanish	QMF for VSE 7.2 (S)
6139	6250 tape	2 of 2	QMF for VSE 7.2 Spanish	QMF for VSE 7.2 (S)
6136	1/4" cart.	2 of 2	QMF for VSE 7.2 Spanish	QMF for VSE 7.2 (S)
6169	3480 cart.	2 of 2	QMF for VSE 7.2 Swiss French	QMF for VSE 7.2 (Y)
6170	4mm cart.	2 of 2	QMF for VSE 7.2 Swiss French	QMF for VSE 7.2 (Y)
6171	6250 tape	2 of 2	QMF for VSE 7.2 Swiss French	QMF for VSE 7.2 (Y)
6168	1/4" cart.	2 of 2	QMF for VSE 7.2 Swiss French	QMF for VSE 7.2 (Y)
6177	3480 cart.	2 of 2	QMF for VSE 7.2 Swiss German	QMF for VSE 7.2 (Z)
6178	4mm cart.	2 of 2	QMF for VSE 7.2 Swiss German	QMF for VSE 7.2 (Z)

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

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
6179	6250 tape	2 of 2	QMF for VSE 7.2 Swiss German	QMF for VSE 7.2 (Z)
6176	1/4" cart.	2 of 2	QMF for VSE 7.2 Swiss German	QMF for VSE 7.2 (Z)
6193	3480 cart.	2 of 2	QMF for VSE 7.2 Uppercase English	QMF for VSE 7.2 (U)
6194	4mm cart.	2 of 2	QMF for VSE 7.2 Uppercase English	QMF for VSE 7.2 (U)
6195	6250 tape	2 of 2	QMF for VSE 7.2 Uppercase English	QMF for VSE 7.2 (U)
6192	1/4" cart.	2 of 2	QMF for VSE 7.2 Uppercase English	QMF for VSE 7.2 (U)

Figure 2. Program Tape: File Content

VOLSER	File	Name
N/A	1	Header File
N/A	2	QMF/VSE History File
N/A	3	QMF/VSE Product Library
N/A	4	Null File (Tape Mark)
N/A	5	EOB (End of Backup Information)
N/A	6	Null File (Tape Mark)

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

Figure 3 identifies the basic program publications for QMF NLF. One copy of each of these publications is included when you order the basic materials for QMF NLF. To order additional hardcopy books, contact your IBM representative or visit the IBM Publications website at <http://www.ibm.com/shop/publications/order>. To view or download a free PDF version of the publication, go to the QMF website at <http://www.ibm.com/software/data/qmf/library.html>.

If a country provides a translated publication, the customer will receive the translated publication instead. Refer to Figure 4 on page 5 for a list of the countries that provide translated publications and the form number for each translated publication.

<i>Figure 3. Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
<i>Installing and Managing QMF</i>	GC27-0720
<i>QMF Messages and Codes</i>	GC27-0717

<i>Figure 4. Basic Material: Translated Unlicensed Publications</i>		
National Language	Publication Title	Form Number
Korean	Installing and Managing QMF	GA30-1426
Korean	QMF Messages and Codes	GA30-1050
Japanese	Installing and Managing QMF	GC88-9067
Japanese	QMF Messages and Codes	GC88-8621

2.3.2 Optional Program Publications

The following are the optional publications that can be ordered.

If a country provides a translated optional publication, the customer can order the translated publication instead. Refer to Figure 6 for a list of the countries that provide translated publications and the form number for each translated publication.

To order hardcopy books, contact your IBM representative or visit the IBM Publications website at <http://www.ibm.com/shop/publications/order>. To view or download a free PDF version of the publication, go to the QMF website at <http://www.ibm.com/software/data/qmf/library.html>.

<i>Figure 5. Optional Material: Unlicensed Publications</i>	
Publication Title	Form Number
<i>Introducing QMF</i>	GC27-0714
<i>QMF Reference</i>	SC27-0715
<i>Using QMF</i>	SC27-0716
<i>Developing QMF Applications</i>	SC27-0718

<i>Figure 6 (Page 1 of 2). Optional Material: Translated Unlicensed Publications</i>		
National Language	Publication Title	Form Number
Brazilian Portuguese	Introducing QMF	G517-7132
Brazilian Portuguese	QMF Reference	S517-6998
Brazilian Portuguese	Using QMF	S517-6999

Figure 6 (Page 2 of 2). Optional Material: Translated Unlicensed Publications

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

2.4 Program Source Materials

Microfiche program listings are not provided with QMF NLF. Customers with access to View Program Listings (VPL), such as through SoftwareXcel Extended, can access program listings formerly provided through microfiche.

Those customers without access to VPL can contact their IBM representative.

The VPL facility provides online viewing of program listings that are available to customers.

2.5 Publications Useful During Installation

Please refer to *Installing and Managing QMF*, GC27-0720, for a list of related publications.

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 either Information/Access or SoftwareXcel Extended to see whether there is additional Preventive Service Planning (PSP) information that you should know. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 7. PSP UPGRADE and SUBSET ID

UPGRADE	SUBSET	RETAIN Release	National Language
DB2VSEVM720	QMFVSE	2NZ	Brazilian Portuguese
DB2VSEVM720	QMFVSE	2OL	Canadian French
DB2VSEVM720	QMFVSE	2NU	French
DB2VSEVM720	QMFVSE	2NV	German
DB2VSEVM720	QMFVSE	2NW	Italian
DB2VSEVM720	QMFVSE	2NX	Japanese
DB2VSEVM720	QMFVSE	2NY	Korean
DB2VSEVM720	QMFVSE	2O0	Spanish
DB2VSEVM720	QMFVSE	2O1	Swiss French
DB2VSEVM720	QMFVSE	2O2	Swiss German
DB2VSEVM720	QMFVSE	2NS	Uppercase English

If you have received QMF NLF only from IBM Software Distribution, then before installing QMF NLF, you should also check with your IBM Support Center or use either Information/Access or SoftwareXcel Extended to see if there is additional PSP information that you should know.

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 8 identifies the component IDs (COMPID) for QMF NLF.

Figure 8. Component IDs

COMP ID	Component Name	CLC	Product Code	Product ID	National Language
564806112	QMF/VSE BRAZ PORTUGU	2NZ	F42	F422NZ	Brazilian Portuguese
564806103	QMF/VSE CAN FRENCH	2OL	F42	F422OL	Canadian French
564806107	QMF/VSE FRENCH	2NU	F42	F422NU	French
564806108	QMF/VSE GERMAN	2NV	F42	F422NV	German
564806109	QMF/VSE ITALIAN	2NW	F42	F422NW	Italian
564806110	QMF/VSE JAPANESE	2NX	F42	F422NX	Japanese
564806111	QMF/VSE KOREAN	2NY	F42	F422NY	Korean
564806113	QMF/VSE SPANISH	2O0	F42	F422O0	Spanish
564806115	QMF/VSE SWISS FRENCH	2O1	F42	F422O1	Swiss French
564806116	QMF/VSE SWISS GERMAN	2O2	F42	F422O2	Swiss German
564806102	QMF/VSE U/C ENGLISH	2NS	F42	F422NS	Uppercase English

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 integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

QMF NLF Version 07 Release 02 has incorporated all closed APARS from previous versions/releases which were closed prior to December 31, 2001.

4.2 Service Level Information

Check the DB2VSEVM720 PSP bucket for any additional PTFs that should be installed or any additional installation information.

4.3 Cumulative Service Tape

There is no cumulative service tape for QMF NLF.

5.0 Installation Requirements and Considerations

This section describes the environment of the target system required to install and use QMF NLF.

5.1 Operating System Requirements

QMF NLF operates under the VSE/ESA operating system. You can install QMF NLF on any processor supported by VSE/ESA 2.4 or higher.

5.2 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.

One tape drive supported by VSE/ESA is required for installation.

5.3 Programming Requirements

You must install the QMF for VSE Version 07 Release 02 base product prior to installing a QMF NLF. All product requisites of QMF for VSE Version 07 Release 02 base are also product requisites of QMF NLF. For details, see the list of base product requisites in the QMF for VSE Version 07 Release 02 base product program directory.

5.4 DASD Storage Requirements

You need the block sizes on the tape scan report to determine library storage requirements. At a minimum, the target library must have free the number of library blocks shown on the tape scan report for the QMF base product. A library block is equivalent to 1KB. For example, 11 library blocks are equal to 11,264 bytes.

You might want to add some extra space, perhaps 10 to 15%, for future enhancements and service upgrades. If you are installing an NLF, also add the library blocks for the base version to the number of library blocks for the particular NLF. Write down the sum of all these numbers; you will need it when you define your library.

5.4.1 Special Considerations

There are no special considerations for QMF NLF.

6.0 Installation Instructions

6.1 Installing QMF NLF

This section describes how to install the QMF product or QMF NLF feature from your distribution tape provided by IBM. The QMF product tape is distributed in the Librarian format of VSE/advanced Functions Version 2. This allows you to use the VSE "Install Programs - V2 Format" dialogs to install the QMF product tape.

The QMF install procedure is designed to install QMF into the VSE sublibrary "PRD2.PROD".

Attention: If you have a previous version or release of QMF in the PRD2.PROD sublibrary, it will be replaced by the new version or release of QMF being installed.

If you change the VSE sublibrary, you also have to make extensive changes to the tailoring procedures provided by QMF. Refer to the *Installing and Managing QMF*, GC27-0720, for details. It is recommended that you use the default sublibrary PRD2.PROD.

The QMF product is distributed as an optional product of VSE or can be ordered as a feature of DB2 VSE Version 07 Release 02. How you install QMF from tape depends on QMF was distributed.

6.1.1 Installing QMF as an Optional Product

If you receive QMF as an optional product on the VSE product tape, you need to install the QMF product using the "Installing Additional VSE Programs in V2 Format" section in your "VSE Installation Guide" that came with your VSE system.

6.1.2 Installing QMF from the Standalone Product Tape using VSE V2 or higher

If you ordered the QMF product on a standalone tape, then follow the procedures provided in this chapter. The VSE "Install Programs - V2 Format" dialog provided by the VSE Interactive Interface is used to install the QMF tape.

The VSE dialog creates job streams that use the VSE Job Manager to manage the installation. The dialog consists of two separate tasks:

1. **Prepare for Installation** This dialog scans the distribution tape and provides information that is used by the next step and creates a job that is used to provide the amount of library blocks needed to load the QMF product or feature.
2. **Install Program from Tape** This dialog shows the tape label of the QMF product or feature being installed. Use this dialog to choose the product ID and the sublibrary that will receive the QMF product or feature.

When you use the dialogs for the first time or when you use a new tape, perform both tasks 1 and 2. If you have used the dialog before with the same tape and have a program list saved, you do not need to perform the Prepare for Installation step.

6.1.3 Prepare for Installation

This procedure has two purposes:

- It creates list output used to check library block sizes. You will need the block size to calculate disk storage requirements.
- It generates input for the Install panel which is used to generate the QMF Installation job.

To Scan the Tape do the following:

1. Log on to the VSE/ICCF system as the administrator using the VSE/Interactive Interface. If you are unfamiliar with the Interactive Interface, you can read about the basic functions in *IBM VSE/ESA Administration*.
2. Mount the QMF installation tape on an available tape drive. IBM distributes the QMF installation tape on magnetic tape (reel or cartridge) .
3. Select Installation to begin the installation process from the VSE Function Selection panel.
4. Select 1 Install Programs - V2 Format from the Installation panel.
5. Select 1 Prepare for Installation
6. Enter the address of the tape drive from step 2.
7. Change Job Destination to 3 on the Job Disposition panel to submit the job and FILE it in the library. Accept all of the other default fields as shown.
8. Switch to the system console. A message similar to the following is displayed:

```
01 BG 000 * *
02 BG 000 * *   PREPARE ADDITIONAL PROGRAM INSTALLATION
03 BG 000 * *   - SCAN PROGRAM TAPE
04 BG 000 * *
05 BG 000 IESI0091I PLEASE MOUNT TAPE LABELLED "VSE OPTIONAL TAPE NUMBER 1"
06 BG-000 IESI0092A MOUNT ON TAPE DRIVE cuu. WHEN READY, REPLY "END/ENTER"
```

9. Enter 0 to reply to this verification message.
10. Retrieve Information about the QMF Tape.

QMF provides the latest storage estimates in table format on the tape. The following procedure describes how to retrieve this data from the list output and how to calculate your library space.

- a. Return to the main VSE/ESA Function Selection panel.
- b. Select Operations from the VSE/ESA Function Selection panel.
- c. Select 2 Manage Batch Queues from the Operations panel.
- d. Accept the default option of 1 List Queue on the Manage Batch Queues panel by pressing Enter.

e. Select the INSPRE job by placing a 1 next to the job name on the List Queue panel.

The pre-installation tape scan report is displayed. This list output report shows all of the products and features that are on your tape. Included in the display are the library block size for the QMF base product and any National Language Features (NLFs) you ordered.

You can identify the base and NLFs by the tapefile ID. The tapefile ID for the base has the product name and version separated by periods. The NLFs replace one of the periods with the NLID. Expect to see one or more of these tapefile IDs on the tape. Table 4 shows the tapefile IDs and their corresponding languages.

Figure 9. Tapefile IDs for QMF National Language Versions

Tapefile ID	Language
QMF/VSE....7.2.0	Base (English)
QMF/VSE.P..7.2.0	Brazilian Portuguese
QMF/VSE.C..7.2.0	Canadian French
QMF/VSE.F..7.2.0	French
QMF/VSE.D..7.2.0	German
QMF/VSE.I..7.2.0	Italian
QMF/VSE.K..7.2.0	Japanese
QMF/VSE.H..7.2.0	Korean
QMF/VSE.S..7.2.0	Spanish
QMF/VSE.Y..7.2.0	Swiss French
QMF/VSE.Z..7.2.0	Swiss German
QMF/VSE.U..7.2.0	Uppercase English

11. Calculating Your Library Storage Needs

You need the block sizes on the tape scan report to determine library storage requirements. At a minimum, the target library must have free the number of library blocks shown on the tape scan report for the QMF base product. A library block is equivalent to 1KB. For example, 11 library blocks are equal to 11,264 bytes.

You might want to add some extra space, perhaps 10 to 15%, for future enhancements and service upgrades. If you are installing an NLF, also add the library blocks for the base version to the number of library blocks for the particular NLF. Write down the sum of all these numbers; you will need it when you define your library.

6.1.4 Install Program from Tape

Now you are ready to install QMF from the tape. To begin, return to the VSE/ESA Function Selection panel.

1. Select Installation from the Function Selection panel.
2. Select 1 Install Programs - V2 Format from the Installation panel.
3. Select 2 Install Product(s) from Tape from the Install Programs V2 Format panel.
4. Type 1 next to the base product or National Language Feature (NLF) component that you are installing. The component is shown in tapefile ID format. These tapefile ID formats are shown in Figure 9 on page 13. The QMF base product and any NLFs must be installed in the same sublibrary. If you did not use the default library PRD2.PROD, type the name of your library and sublibrary on this screen.
5. Press PF5 to process.
6. Type 1 to save the product list on the Install Product(s) from Tape panel.
7. Type the tape address again and press Enter on the VSE/ESA Install Product(s) Tape Specification panel.
8. Change Job Destination to 3 and press Enter on the Job Disposition panel to submit the job and to file it in the library. Accept all of the other default fields shown on the panel.
9. Switch to the system console. You will see a message similar to:

```
01 BG 000 * *
02 BG 000 * *   THIS IS PROGRAM INSTALL JOB NO. n
03 BG 000 * *   THIS JOB INSTALLS QMF for VSE....7.2.0 FROM TAPE NO. n
04 BG 000 * *
05 BG 000 *****
06 BG-000 // PAUSE MOUNT TAPE NO. n FOR "INSTALL PROGRAMS" ON ADDRESS cuu
```

Reply to this verification message by entering a 0. It takes a few minutes to restore from the tape. The QMF standalone tape is shipped in non-stacked V2 format. You can expect return code 4 from the verification job:

```
IESI0083I TAPE FORMAT IS NOT V2-STACKED
EOJ DTR231   MAX.RETURN CODE=0004
```

10. Acceptable return codes from the QMF installation are 0 and 4. If you receive anything other than a return code of 0 or 4:
 - a. Check the list output for error conditions.
 - b. See the VSE/ESA Messages and Codes manual for corrective action.
 - c. Correct the error.
 - d. Rerun the job.
 - e. Recheck the return code.

6.2 Activating QMF NLF

Now that you have successfully installed QMF NLF from tape, refer to the *Installing and Managing QMF*, GC27-0720, for instructions on the remaining jobs to run and how to activate QMF.

Reader's Comments

Program Directory for Query Management Facility National Language Feature Version 07 Release 02

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

RATING SCALE						
very satisfied	<----->				very dissatisfied	not applicable
1	2	3	4	5	N	

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	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
Ease of getting the system into production after installation	1	2	3	4	5	N

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

- Independent
- Package

If this product was ordered as part of a 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

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