



**Program Directory for
IBM Db2 13 for z/OS
QMF Enterprise Edition
National Language Version**

13.01.00

Program Number 5698-DB2

HSQDD10, HFQMD10, HQDCC10, HHPCC10, JYQDD10, JSQDD1E and NLVs

for Use with
z/OS

Document Date: May 2022

GI13-5538-00

Note

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 74.

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1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM Db2 Query Management Facility Enterprise. This publication refers to IBM Db2 Query Management Facility Enterprise as QMF Enterprise Edition - NLV.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 5 identifies the basic program materials and documentation for QMF Enterprise Edition - NLV.
- 3.0, “Program Support” on page 18 describes the IBM support available for QMF Enterprise Edition - NLV.
- 4.0, “Program and Service Level Information” on page 21 lists the APARs (program level) and PTFs (service level) that have been incorporated into QMF Enterprise Edition - NLV.
- 5.0, “Installation Requirements and Considerations” on page 22 identifies the resources and considerations that are required for installing and using QMF Enterprise Edition - NLV.
- 6.0, “Installation Instructions” on page 45 provides detailed installation instructions for QMF Enterprise Edition - NLV. It also describes the procedures for activating the functions of QMF Enterprise Edition - NLV, or refers to appropriate publications.

Before installing QMF Enterprise Edition - NLV, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this program directory; after which, keep the documents for your reference. Section 3.2, “Preventive Service Planning” on page 18 tells you how to find any updates to the information and procedures in this program directory.

QMF Enterprise Edition - NLV is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The program directory that is provided in softcopy format on the CBPDO is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for QMF Enterprise Edition - NLV are included on the CBPDO.

Do not use this program directory if you install QMF Enterprise Edition - NLV with a ServerPac. When you use one of those offerings, use the jobs and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

1.1 QMF Enterprise Edition - NLV Description

QMF Enterprise Edition provides a complete business analytics solution for enterprise-wide business information across end-user and database platforms.

QMF Enterprise Edition consists of the following capabilities:

- QMF for TSO and CICS
- QMF Enhanced Editor
- QMF applications
- QMF High Performance Option (HPO)
- QMF for Workstation
- QMF for WebSphere
- QMF Data Service including QMF Data Service Studio

New **QMF for TSO and CICS** enhancements are:

- The CURRENT LOCK TIMEOUT special register can be set from within a QMF SQL query. This special register specifies the number of seconds to elapse before a resource timeout is detected.
- By using new keyword parameters options ALL or NONE on the folder keyword of the LIST command, users can view QMF objects needing to be organized by FOLDER that may help users organize QMF objects.
- The DESCRIBE Panel has been updated to show all folder names currently assigned to the QMF objects.
- The DESCRIBE command is executed from an active list of QMF objects.

New **QMF for Workstation and WebSphere** enhancements are:

- For workstation configurations rollout related to Repository Connections, the JDBC library has been simplified. Users will be able to publish configurations to QMF Server. All workstations connected to QMF Server will receive notification for new configuration. Users will be easily able to apply the new configuration to their workstation from the download option provided with the notification message. Admin Users will be able to monitor the new configuration roll-out from the QMF Server interface. QMF servers can set up in a cluster for scalability and failover.
- The Tip of the day feature can help user productivity by making users more aware of QMF features. Tips are based on individual user activity.
- Users can specify a time zone for scheduling tasks with a drop-down selection menu. The values in the drop-down are sorted by UTC time and can be easily searched and viewed.
- QMF provides support for MongoDB as a read-only data source with the ability to query MongoDB from QMF. QMF accesses MongoDB using MongoDB connector for BI.
- QMF supports hybrid cloud deployment on IBM cloud and Microsoft Azure connecting to on-premises data sources. QMF also supports topology where it can be deployed on-premises and connected to data sources on cloud.
- All QMF objects are supported with Amazon Athena and RedShift.
- zOS Container Extensions (zCX) enables customers to deploy applications as Docker containers on z/OS, with zOS Quality of Service. Certification of QMF for WebSphere on zCX simplifies installation and operation of QMF for WebSphere application on z/OS. Workloads deployed on zCX are zIIP

eligible. Customers do not need to provision for a separate Linux server. Note: zCX support is applicable to QMF for WebSphere, and it is not applicable to QMF for Workstation.

New **QMF Z Client** enhancements are:

- Support for new global variables for Column default and null indicator. New Global variables supported are DSQCP_TEDFLT, DSQCP_TEDFLT_DBCS, DSQCP_TENULL and DSQCP_TENULL_DBCS. DSQCP_TEDFLT and DSQCP_TEDFLT_DBCS are used to specify default value for a column. DSQCP_TENULL and DSQCP_TENULL_DBCS to use to indicate null value in a column

1.2 QMF Enterprise Edition - NLV FMIDs

QMF Enterprise Edition - NLV consists of the following FMIDs:

HFQMD10 (QMF Z Client)
HSQDD10 (QMF TSO/CICS Base)
HHPCC10 (QMF HPO)
HQDCC10 (QMF Data Service)
JYQDD10 (QMF applications)
JSQDD1E (QMF Enterprise Edition Identifier)

JSQDD5A (QMF Korean)
JSQDD5B (QMF Brazilian Portuguese)
JSQDD5C (QMF Spanish)
JSQDD5D (QMF Swedish)
JSQDD5E (QMF Swiss French)
JSQDD5F (QMF Swiss German)
JSQDD5G (QMF Canadian French)
JSQDD51 (QMF Uppercase English)
JSQDD55 (QMF Danish)
JSQDD56 (QMF French)
JSQDD57 (QMF German)
JSQDD58 (QMF Italian)
JSQDD59 (QMF Japanese)

Notes:

- To install the QMF for TSO and CICS product, install FMIDs HSQDD10 (QMF TSO/CICS Base) and JSQDD1E (QMF Enterprise Edition Identifier).
- To install the features QMF applications and the QMF Enhanced Editor for QMF for TSO and CICS, install FMID JYQDD10 (QMF applications). QMF for TSO and CICS FMID HSQDD10 is a prerequisite.
- To install QMF HPO, install the FMID HHPCC10 (QMF HPO). Please note that QMF HPO 12.1 FMID (HHPCC10) is provided with this QMF 13 feature.

- To install QMF Data Service, install the FMID HQDCC10 (QMF Data Service). Please note that QMF Data Service 12.1 FMID (HQDCC10) is provided with this QMF 13 feature.
- The installation of any QMF National Language FMID, requires the prerequisite QMF for TSO and CICS FMID HSQDD10.
- To install QMF Z Client, install FMID HFQMD20. No additional NLV FMIDs are required to be installed for QMF Z Client NLV support.

2.0 Program Materials

An IBM program is identified by a program number. The program number for QMF Enterprise Edition - NLV is 5698-DB2.

Basic Machine-Readable Materials are materials that are supplied under the base license and are required for the use of the product.

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

2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 45 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for QMF Enterprise Edition - NLV in the *CBPDO Memo To Users Extension*.

Figure 1. Program File Content for QMF Z Client

| Name | O R G | R E C M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.HFQMD10.F1 | PDS | FB | 80 | 8800 |
| IBM.HFQMD10.F2 | PDS | FB | 80 | 8800 |
| IBM.HFQMD10.F3 | PDS | VB | 0 | 6144 |
| IBM.HFQMD10.F4 | PDSE | U | 0 | 6144 |
| IBM.HFQMD10.F5 | PDS | FB | 80 | 8800 |
| IBM.HFQMD10.F6 | PDS | FB | 80 | 8800 |

Figure 2. Program File Content for QMF TSO/CICS Base

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.HSQDD10.F1 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F2 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F3 | PDS | F | 400 | 400 |
| IBM.HSQDD10.F4 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F5 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F6 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F7 | PDS | F | 400 | 400 |
| IBM.HSQDD10.F8 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F9 | PDS | U | 0 | 6144 |
| IBM.HSQDD10.F10 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F11 | PDS | VB | 32622 | 32626 |
| IBM.HSQDD10.F12 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F13 | PDS | FB | 80 | 8800 |
| IBM.HSQDD10.F14 | PDS | FB | 80 | 8800 |

Figure 3 (Page 1 of 2). Program File Content for QMF HPO

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.HHPCC10.F1 | PDS | FB | 80 | 8800 |
| IBM.HHPCC10.F2 | PDS | FB | 80 | 8800 |
| IBM.HHPCC10.F3 | PDS | FB | 80 | 8800 |
| IBM.HHPCC10.F4 | PDS | FB | 80 | 8800 |
| IBM.HHPCC10.F5 | PDS | FB | 80 | 8800 |
| IBM.HHPCC10.F6 | PDS | FB | 80 | 8800 |
| IBM.HHPCC10.F7 | PDS | U | 0 | 6144 |
| IBM.HHPCC10.F8 | PDS | FB | 80 | 8800 |

Figure 3 (Page 2 of 2). Program File Content for QMF HPO

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| IBM.HHPCC10.F9 | PDS | FB | 80 | 8800 |

Figure 4. Program File Content for QMF Data Service

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.HQDCC10.F1 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F2 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F3 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F4 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F5 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F6 | PDSE | U | 0 | 6144 |
| IBM.HQDCC10.F7 | PDS | FB | 2048 | 30720 |
| IBM.HQDCC10.F8 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F9 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F10 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F11 | PDSE | U | 0 | 6144 |
| IBM.HQDCC10.F12 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F13 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F14 | PDS | FB | 2048 | 30720 |
| IBM.HQDCC10.F15 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F16 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F17 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F18 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F19 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F20 | PDS | FB | 80 | 8800 |
| IBM.HQDCC10.F21 | PDS | FB | 80 | 8800 |

Figure 5. Program File Content for QMF applications

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JYQDD10.F1 | PDS | FB | 80 | 8800 |
| IBM.JYQDD10.F2 | PDS | FB | 80 | 8800 |
| IBM.JYQDD10.F3 | PDS | FB | 80 | 8800 |
| IBM.JYQDD10.F4 | PDS | U | 0 | 6144 |
| IBM.JYQDD10.F5 | PDS | FB | 80 | 8800 |
| IBM.JYQDD10.F6 | PDS | U | 0 | 6144 |
| IBM.JYQDD10.F7 | PDS | FB | 80 | 8800 |
| IBM.JYQDD10.F8 | PDS | FB | 80 | 8800 |

Figure 6. Program File Content for QMF Enterprise Edition Identifier

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD1E.F1 | PDS | U | 0 | 6144 |

Figure 7 (Page 1 of 2). Program File Content for QMF Korean

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD5A.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5A.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5A.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5A.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5A.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD5A.F6 | PDS | FB | 80 | 8800 |

Figure 7 (Page 2 of 2). Program File Content for QMF Korean

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| IBM.JSQDD5A.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD5A.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5A.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD5A.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5A.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5A.F12 | PDS | FB | 80 | 8800 |

Figure 8. Program File Content for QMF Brazilian Portuguese

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD5B.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD5B.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD5B.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD5B.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5B.F12 | PDS | FB | 80 | 8800 |

Figure 9. Program File Content for QMF Spanish

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD5C.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD5C.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD5C.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD5C.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5C.F12 | PDS | FB | 80 | 8800 |

Figure 10 (Page 1 of 2). Program File Content for QMF Swedish

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD5D.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5D.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5D.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5D.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5D.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD5D.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5D.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD5D.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5D.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD5D.F10 | PDS | FB | 80 | 8800 |

Figure 10 (Page 2 of 2). Program File Content for QMF Swedish

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| IBM.JSQDD5D.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5D.F12 | PDS | FB | 80 | 8800 |

Figure 11. Program File Content for QMF Swiss French

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD5E.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD5E.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD5E.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD5E.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5E.F12 | PDS | FB | 80 | 8800 |

Figure 12 (Page 1 of 2). Program File Content for QMF Swiss German

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD5F.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5F.F2 | PDS | FB | 80 | 8800 |

Figure 12 (Page 2 of 2). Program File Content for QMF Swiss German

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| IBM.JSQDD5F.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5F.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5F.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD5F.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5F.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD5F.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5F.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD5F.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5F.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5F.F12 | PDS | FB | 80 | 8800 |

Figure 13. Program File Content for QMF Canadian French

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD5G.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD5G.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD5G.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD5G.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD5G.F12 | PDS | FB | 80 | 8800 |

Figure 14. Program File Content for QMF Uppercase English

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD51.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD51.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD51.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD51.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD51.F12 | PDS | FB | 80 | 8800 |

Figure 15 (Page 1 of 2). Program File Content for QMF Danish

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD55.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD55.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD55.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD55.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD55.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD55.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD55.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD55.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD55.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD55.F10 | PDS | FB | 80 | 8800 |

Figure 15 (Page 2 of 2). Program File Content for QMF Danish

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| IBM.JSQDD55.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD55.F12 | PDS | FB | 80 | 8800 |

Figure 16. Program File Content for QMF French

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD56.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD56.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD56.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD56.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD56.F12 | PDS | FB | 80 | 8800 |

Figure 17 (Page 1 of 2). Program File Content for QMF German

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD57.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD57.F2 | PDS | FB | 80 | 8800 |

Figure 17 (Page 2 of 2). Program File Content for QMF German

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| IBM.JSQDD57.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD57.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD57.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD57.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD57.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD57.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD57.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD57.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD57.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD57.F12 | PDS | FB | 80 | 8800 |

Figure 18. Program File Content for QMF Italian

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD58.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD58.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD58.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD58.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD58.F12 | PDS | FB | 80 | 8800 |

Figure 19. Program File Content for QMF Japanese

| Name | O R G | R E C F M | L R E C L | BLK SIZE |
|-----------------|----------------------|----------------------------------|----------------------------------|---------------------|
| SMPMCS | SEQ | FB | 80 | 6400 |
| IBM.JSQDD59.F1 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F2 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F3 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F4 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F5 | PDS | F | 400 | 400 |
| IBM.JSQDD59.F6 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F7 | PDS | U | 0 | 6144 |
| IBM.JSQDD59.F8 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F9 | PDS | V | 32622 | 32626 |
| IBM.JSQDD59.F10 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F11 | PDS | FB | 80 | 8800 |
| IBM.JSQDD59.F12 | PDS | FB | 80 | 8800 |

2.2 Program Publications

The following sections identify the basic publications for QMF Enterprise Edition - NLV.

Figure 20 identifies the basic licensed program publications for QMF Enterprise Edition - NLV.

Figure 20. Basic Material: Licensed Publications

| Publication Title | Form Number | Media Format |
|--|------------------------|-------------------------|
| <i>Accessing QMF Enterprise distributed components</i> | LCD7-7807 | DVD |

Note: The LCD7-7807 DVD contains a Memo to Users that provides the method in which to access Marketing Registration Services (MRS) to download the distributed components of the QMF Enterprise Edition feature.

2.2.1 Unlicensed publications for QMF Enterprise Edition - NLV

The complete library of QMF publications may be found in the online product documentation at the following site;

<https://www.ibm.com/docs/en/qmf>

2.2.2 Optional Program Publications

No optional publications are provided for QMF Enterprise Edition - NLV.

2.3 Program Source Materials

No program source materials or viewable program listings are provided for QMF Enterprise Edition - NLV.

2.4 Publications Useful During Installation

You might want to use the publications listed in Figure 21 during the installation of QMF Enterprise Edition - NLV.

| <i>Figure 21. Publications Useful During Installation</i> | |
|---|--------------------|
| Publication Title | Form Number |
| <i>IBM SMP/E for z/OS User's Guide</i> | SA23-2277 |
| <i>IBM SMP/E for z/OS Commands</i> | SA23-2275 |
| <i>IBM SMP/E for z/OS Reference</i> | SA23-2276 |
| <i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i> | GA32-0883 |

Note: These publications can be found in IBM Documentation. Use a web browser with internet access to refer to: <https://www.ibm.com/docs/en/zos/2.5.0?topic=zos-smpe>

3.0 Program Support

This section describes the IBM support available for QMF Enterprise Edition - NLV.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before you install QMF Enterprise Edition - NLV, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.PRODUCTINSTALL-REQUIRESERVICE fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on the **APPLY CHECK** command. See 6.1.10, "Perform SMP/E APPLY" on page 67 for a sample APPLY command

If you obtained QMF Enterprise Edition - NLV as part of a CBPDO, HOLDDATA is included.

If the CBPDO for QMF Enterprise Edition - NLV is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to the following website:

<https://esupport.ibm.com/customercare/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Website at <https://www.ibm.com/mysupport/>.

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for QMF Enterprise Edition - NLV are included in Figure 22.

| UPGRADE | SUBSET | Description |
|----------------|---------------|--------------------|
| QMFD10 | HFQMD10 | QMF Z Client |
| | HSQDD10 | QMF TSO/CICS Base |
| | HHPCC10 | QMF HPO |

Figure 22 (Page 2 of 2). PSP Upgrade and Subset ID

| UPGRADE | SUBSET | Description |
|---------|---------|-----------------------------------|
| | JYQDD10 | QMF applications |
| | JSQDD1E | QMF Enterprise Edition Identifier |
| | HQDCC10 | QMF Data Service |
| | JSQDD5A | QMF Korean |
| | JSQDD5B | QMF Brazilian Portuguese |
| | JSQDD5C | QMF Spanish |
| | JSQDD5D | QMF Swedish |
| | JSQDD5E | QMF Swiss French |
| | JSQDD5F | QMF Swiss German |
| | JSQDD5G | QMF Canadian French |
| | JSQDD51 | QMF Uppercase English |
| | JSQDD55 | QMF Danish |
| | JSQDD56 | QMF French |
| | JSQDD57 | QMF German |
| | JSQDD58 | QMF Italian |
| | JSQDD59 | QMF Japanese |

3.3 Statement of Support Procedures

Report any problems which you feel might be an error in the product materials to your IBM Support Center. You may be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 23 identifies the component IDs (COMPID) for QMF Enterprise Edition - NLV.

Figure 23 (Page 1 of 2). Component IDs

| FMID | COMPID | Component Name | RETAIN Release |
|---------|-----------|-----------------------------------|----------------|
| HFQMD10 | 566872105 | QMF Z Client | D10 |
| HSQDD10 | 566872101 | QMF TSO/CICS Base | D10 |
| HHPCC10 | 5668HPO00 | QMF HPO | C10 |
| JYQDD10 | 5668QCA00 | QMF applications | D10 |
| JSQDD1E | 566872101 | QMF Enterprise Edition Identifier | D1E |

Figure 23 (Page 2 of 2). Component IDs

| FMID | COMPID | Component Name | RETAIN Release |
|-------------|---------------|--------------------------|-----------------------|
| HQDCC10 | 566872103 | QMF Data Service | C10 |
| JSQDD5A | 566872101 | QMF Korean | D5A |
| JSQDD5B | 566872101 | QMF Brazilian Portuguese | D5B |
| JSQDD5C | 566872101 | QMF Spanish | D5C |
| JSQDD5D | 566872101 | QMF Swedish | D5D |
| JSQDD5E | 566872101 | QMF Swiss French | D5E |
| JSQDD5F | 566872101 | QMF Swiss German | D5F |
| JSQDD5G | 566872101 | QMF Canadian French | D5G |
| JSQDD51 | 566872101 | QMF Uppercase English | D51 |
| JSQDD55 | 566872101 | QMF Danish | D55 |
| JSQDD56 | 566872101 | QMF French | D56 |
| JSQDD57 | 566872101 | QMF German | D57 |
| JSQDD58 | 566872101 | QMF Italian | D58 |
| JSQDD59 | 566872101 | QMF Japanese | D59 |

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of QMF Enterprise Edition - NLV. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been incorporated into the program.

4.1 Program Level Information

All PTFs for previous releases of QMF Enterprise Edition - NLV that were closed on or before February 16, 2022 are incorporated into QMF Version 13.

4.2 Service Level Information

No PTFs against this release of QMF Enterprise Edition - NLV have been incorporated into the product package.

Frequently check the QMF Enterprise Edition - NLV PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on your **APPLY CHECK** command. This will allow you to review the recommended and critical service that should be installed with your FMIDs.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating QMF Enterprise Edition - NLV. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.
The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.
- *Target system*: the system on which the program is configured and run.
The program might have specific product level requirements, such as needing access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate IPL-able clone of the running system to use as a target system. The clone must include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product will replace the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install QMF Enterprise Edition - NLV.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements

Figure 24. Driving System Software Requirements

| Program Number | Product Name | Minimum VRM | Minimum Service Level will satisfy these APARs | Included in the shipped product? |
|----------------|--------------|-------------|--|----------------------------------|
| 5650-ZOS | z/OS | 02.03.00 | N/A | No |

Note: SMP/E is a requirement for Installation and is an element of z/OS.

Note: Installation might require migration to new z/OS releases to be service supported. See <https://www.ibm.com/support/lifecycle/>

5.2 Target System Requirements

This section describes the environment of the target system required to install and use QMF Enterprise Edition - NLV.

QMF Enterprise Edition - NLV installs in the DBS (P115) SREL.

5.2.1 Machine Requirements

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

5.2.2 Programming Requirements

5.2.2.1 Installation Requisites

Installation requisites identify products that are required and *must* be present on the system or products that are not required but *should* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product. These products are specified as PREs or REQs.

Figure 25 (Page 1 of 2). Target System Mandatory Installation Requisites

| Program Number | Product Name | Minimum VRM | Minimum Service Level will satisfy these APARs | Included in the shipped product? |
|----------------------------------|--------------|--------------------|--|----------------------------------|
| 5650-ZOS | z/OS | 02.03.00 or higher | N/A | No |
| Any one of the following: | | | | |

| Figure 25 (Page 2 of 2). Target System Mandatory Installation Requisites | | | | |
|--|--|--------------------|--|----------------------------------|
| Program Number | Product Name | Minimum VRM | Minimum Service Level will satisfy these APARs | Included in the shipped product? |
| 5650-DB2 | IBM Db2 12 for z/OS | 12.01.00 or higher | N/A | No |
| 5770-AF3 | IBM Db2 12 for z/OS Value Unit Edition | 12.01.00 or higher | N/A | No |
| 5698-DB2 | IBM Db2 13 for z/OS | 13.01.00 | N/A | No |
| 5698-DBV | IBM Db2 13 for z/OS Value Unit Edition | 13.01.00 | N/A | No |

Note: Installation might require migration to new releases to obtain support. See <https://www.ibm.com/support/lifecycle/>

Conditional installation requisites identify products that are *not* required for successful installation of this product but can resolve such things as certain warning messages at installation time. These products are specified as IF REQs.

QMF Enterprise Edition - NLV has no conditional installation requisites.

5.2.2.2 Operational Requisites

Operational requisites are products that are required and *must* be present on the system or products that are not required but *should* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions.

| Figure 26 (Page 1 of 2). Target System Mandatory Operational Requisites | |
|---|--|
| Program Number | Product Name and Minimum VRM/Service Level |
| Any one of the following: | |
| 5650-DB2 | IBM Db2 12 for z/OS |
| 5770-AF3 | IBM Db2 12 for z/OS Value Unit Edition |
| 5698-DB2 | IBM Db2 13 for z/OS |

Figure 26 (Page 2 of 2). Target System Mandatory Operational Requisites

| Program Number | Product Name and Minimum VRM/Service Level |
|---|--|
| 5698-DBV | IBM Db2 13 for z/OS Value Unit Edition |
| Any one of the following (for QMF under CICS only) | |
| 5655-Y04 | IBM CICS Transaction Server for z/OS, 5.5 |
| 5655-Y04 | IBM CICS Transaction Server for z/OS, 5.6 |

Note: Installation might require migration to new releases to obtain support. See <https://www.ibm.com/support/lifecycle/>

Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions. These products are specified as IF REQs.

QMF Enterprise Edition - NLV has no conditional operational requisites.

5.2.2.3 Toleration/Coexistence Requisites

Toleration/coexistence requisites identify products that must be present on sharing systems. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD environment at different time intervals.

QMF Enterprise Edition - NLV has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites

Negative requisites identify products that must *not* be installed on the same system as this product.

QMF Enterprise Edition - NLV has no negative requisites.

5.2.3 DASD Storage Requirements

QMF Enterprise Edition - NLV libraries can reside on all supported DASD types.

Figure 27 lists the total space that is required for each type of library.

Figure 27. Total DASD Space Required by QMF Enterprise Edition - NLV

| Library Type | Total Space Required in 3390 Trks | Description |
|--------------|-----------------------------------|-------------|
| Target | 7336 | |
| Distribution | 6488 | |

Figure 28. Total DASD Space Required by any National Language Version

| Library Type | Total Space Required in 3390 Trks |
|--------------|-----------------------------------|
| Target | 281 |
| Distribution | 328 |

Notes:

1. For non-RECFM U data sets, IBM recommends using system-determined block sizes for efficient DASD utilization. For RECFM U data sets, IBM recommends using a block size of 32760, which is most efficient from the performance and DASD utilization perspective.
2. Abbreviations used for data set types are shown as follows.

- U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not need to refer to other tables or program directories for the data set size.
- S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage needed for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.
- E** Existing shared data set, used by this product and other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size given in this table to those given in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old release and reclaim the space that was used by the old release and any service that had been installed. You can determine whether these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information about the names and sizes of the required data sets, see 6.1.8, "Allocate SMP/E Target and Distribution Libraries" on page 65.

3. Abbreviations used for the file system path type are as follows.

- N** New path, created by this product.
- X** Path created by this product, but might already exist from a previous release.
- P** Previously existing path, created by another product.

4. All target and distribution libraries listed have the following attributes:

- The default name of the data set can be changed.
- The default block size of the data set can be changed.
- The data set can be merged with another data set that has equivalent characteristics.
- The data set can be either a PDS or a PDSE, with some exceptions. If the value in the "ORG" column specifies "PDS", the data set must be a PDS. If the value in "DIR Blks" column specifies "N/A", the data set must be a PDSE.

5. All target libraries listed have the following attributes:

- These data sets can be SMS-managed, but they are not required to be SMS-managed.
- These data sets are not required to reside on the IPL volume.
- The values in the "Member Type" column are not necessarily the actual SMP/E element types that are identified in the SMPMCS.

6. All target libraries that are listed and contain load modules have the following attributes:

- These data sets can not be in the LPA, with some exceptions. If the data set should be placed in the LPA, see the Special Considerations section below.
- These data sets can be in the LNKLST. If so, see the Special Considerations section below.
- These data sets are not required to be APF-authorized, with some exceptions. If the data set must be APF-authorized, see the Special Considerations section below.

If you are installing a National Language in this document, please refer to the following table which associates a lettered language identifier to each National Language. The language identifier is the last character shown in the Storage Requirement figures for the Target, Distribution and Non-SMP/E data set names.

This language identifier does not apply to the QMF for TSO/CICS base.

Figure 29 (Page 1 of 2). QMF National Language Identifiers

| Language | Language Identifier | F MID |
|--------------------------|----------------------------|--------------|
| QMF Korean | H | JSQDD5A |
| QMF Brazilian Portuguese | P | JSQDD5B |
| QMF Spanish | S | JSQDD5C |
| QMF Swedish | V | JSQDD5D |
| QMF Swiss French | Y | JSQDD5E |
| QMF Swiss German | Z | JSQDD5F |
| QMF Canadian French | C | JSQDD5G |
| QMF Uppercase English | U | JSQDD51 |

Figure 29 (Page 2 of 2). QMF National Language Identifiers

| Language | Language Identifier | F MID |
|--------------|---------------------|---------|
| QMF Danish | Q | JSQDD55 |
| QMF French | F | JSQDD56 |
| QMF German | D | JSQDD57 |
| QMF Italian | I | JSQDD58 |
| QMF Japanese | K | JSQDD59 |

The following figures describe the target and distribution libraries required to install QMF Enterprise Edition - NLV. The storage requirements of QMF Enterprise Edition - NLV must be added to the storage required by other programs that have data in the same library or path.

Note: Use the data in these tables to determine which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 30. Storage Requirements for QMF Z Client Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C O R D M | L E N G T H | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|---------------------------------|----------------------------|---------------------------|--------------------------|
| SFQMBASE | SAMP | ANY | U | PDS | FB | 80 | 2 | 5 |
| SFQMEXEC | EXEC | ANY | U | PDS | FB | 80 | 1 | 2 |
| SFQMLANG | DATA | ANY | U | PDS | VB | 256 | 13 | 2 |
| SFQMLoad | PROGRAM | ANY | U | PDSE | U | 0 | 570 | N/A |
| SFQM PARM | PARM | ANY | U | PDS | FB | 80 | 1 | 2 |
| SFQMSKEL | SKEL | ANY | U | PDS | FB | 80 | 1 | 2 |

Figure 31 (Page 1 of 2). Storage Requirements for QMF for TSO/CICS Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C O R D M | L E N G T H | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|---------------------------------|----------------------------|---------------------------|--------------------------|
| SDSQBASE | SAMP | Any | U | PDS | FB | 80 | 9 | 5 |
| SDSQCHRT | DATA | Any | U | PDS | FB | 400 | 2 | 5 |
| SDSQCLTE | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |

Figure 31 (Page 2 of 2). Storage Requirements for QMF for TSO/CICS Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDSQDBRM | MAC | Any | U | PDS | FB | 80 | 10 | 5 |
| SDSQEXCE | EXEC | Any | U | PDS | FB | 80 | 21 | 5 |
| SDSQEXIT | LMOD | Any | U | PDS | U | 0 | 4 | 5 |
| SDSQLLOAD | LMOD | Any | U | PDS | U | 0 | 1626 | 30 |
| SDSQMAPE | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBE | MSGENU | Any | U | PDS | FB | 80 | 6 | 5 |
| SDSQPLBE | PNLENU | Any | U | PDS | FB | 80 | 22 | 10 |
| SDSQPVRE | DATA | Any | U | PDS | V | 32622 | 200 | 5 |
| SDSQSAPE | MAC | Any | U | PDS | FB | 80 | 51 | 15 |
| SDSQSLBE | MAC | Any | U | PDS | FB | 80 | 6 | 5 |
| SDSQTLBE | TBL | Any | U | PDS | FB | 80 | 17 | 5 |
| SDSQUSRE | MAC | Any | U | PDS | FB | 80 | 26 | 5 |

Figure 32. Storage Requirements for QMF HPO Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SRAACLST | CLIST | Any | U | PDS | FB | 80 | 20 | 5 |
| SRAADB RM | MAC | Any | U | PDS | FB | 80 | 40 | 5 |
| SRAAEXEC | EXEC | Any | U | PDS | FB | 80 | 5 | 5 |
| SRAAISPM | MSGENU | Any | U | PDS | FB | 80 | 25 | 20 |
| SRAAISPP | PNLENU | Any | U | PDS | FB | 80 | 160 | 90 |
| SRAALOAD | MOD | Any | U | PDS | U | 0 | 400 | 25 |
| SRAASAMP | SAMP | Any | U | PDS | FB | 80 | 30 | 10 |
| SRAASKEL | DATA | Any | U | PDS | FB | 80 | 120 | 5 |

Figure 33. Storage Requirements for QMF applications Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDYQCFG | DATA | Any | U | PDS | FB | 80 | 5 | 5 |

Figure 34. Storage Requirements for QMF Data Service Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SCQDBASE | SAMP | Any | U | PDS | FB | 80 | 15 | 5 |
| SCQDCLOUD | MOD | Any | U | PDSE | U | 0 | 10 | n/a |
| SCQDCNTL | DATA | Any | U | PDS | FB | 80 | 30 | 10 |
| SCQDDBRM | MAC | Any | U | PDS | FB | 80 | 50 | 5 |
| SCQDEXEC | EXEC | Any | U | PDS | FB | 80 | 60 | 5 |
| SCQDLOAD | MOD | Any | U | PDSE | U | 0 | 3000 | n/a |
| SCQDMAP | DATA | Any | U | PDS | FB | 2048 | 20 | 10 |
| SCQDMENU | MSGENU | Any | U | PDS | FB | 80 | 10 | 5 |
| SCQDOBJX | DATA | Any | U | PDS | FB | 80 | 35 | 5 |
| SCQDPENU | PNLENU | Any | U | PDS | FB | 80 | 50 | 25 |
| SCQDRPC | MOD | Any | U | PDSE | U | 0 | 60 | n/a |
| SCQDSAMP | DATA | Any | U | PDS | FB | 80 | 30 | 15 |
| SCQDSLIB | SKL | Any | U | PDS | FB | 80 | 5 | 5 |
| SCQDSMAP | DATA | Any | U | PDS | FB | 2048 | 1050 | 30 |
| SCQDTENU | TBL | Any | U | PDS | FB | 80 | 5 | 5 |
| SCQDXATH | DATA | Any | U | PDS | FB | 80 | 15 | 10 |
| SCQDXCMD | DATA | Any | U | PDS | FB | 80 | 10 | 5 |
| SCQDXEXEC | DATA | Any | U | PDS | FB | 80 | 12 | 5 |
| SCQDXSQL | DATA | Any | U | PDS | FB | 80 | 15 | 5 |
| SCQDXTOD | DATA | Any | U | PDS | FB | 80 | 5 | 5 |
| SCQDXVTB | DATA | Any | U | PDS | FB | 80 | 5 | 5 |

Figure 35 (Page 1 of 5). Storage Requirements for QMF Enterprise Edition - NLV Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|----------------|------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDSQCLTH | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCH | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPH | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBH | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBH | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRH | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMH | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPH | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBH | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRH | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTP | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCP | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPP | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBP | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBP | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRP | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMP | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPP | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBP | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQSRP | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTS | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCS | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPS | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBS | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBS | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRS | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMS | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPS | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBS | TBL | Any | U | PDS | FB | 80 | 11 | 5 |

Figure 35 (Page 2 of 5). Storage Requirements for QMF Enterprise Edition - NLV Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|----------------|------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDSQUSRS | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTV | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCV | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPV | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBV | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBV | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRV | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMV | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPV | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBV | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRV | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTY | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCY | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPY | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBY | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBY | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRV | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMY | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPY | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBY | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRY | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTZ | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCZ | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPZ | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBZ | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBZ | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRZ | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMZ | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPZ | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |

Figure 35 (Page 3 of 5). Storage Requirements for QMF Enterprise Edition - NLV Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDSQTLBZ | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRZ | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTC | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCC | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPC | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBC | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBC | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRC | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMC | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPC | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBC | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRC | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTU | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCU | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPU | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBU | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBU | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRU | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMU | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPU | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBU | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRU | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTQ | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCQ | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPQ | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBQ | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBQ | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRQ | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMQ | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |

Figure 35 (Page 4 of 5). Storage Requirements for QMF Enterprise Edition - NLV Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|----------------|------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDSQSAPQ | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBQ | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRQ | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTF | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCF | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPF | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBF | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBF | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRF | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMF | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPF | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBF | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRF | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTD | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCD | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPD | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBD | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBD | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRD | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMD | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPD | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBD | TBL | Any | U | PDS | FB | 80 | 5 | 10 |
| SDSQUSRD | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTI | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCI | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPI | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBI | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBI | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRI | DATA | Any | U | PDS | V | 32622 | 150 | 5 |

Figure 35 (Page 5 of 5). Storage Requirements for QMF Enterprise Edition - NLV Target Libraries

| Library DDNAME | Member Type | Target Volume | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|----------------|-------------|---------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| SDSQSAMI | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPI | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBI | TBL | Any | U | PDS | FB | 80 | 11 | 5 |
| SDSQUSRI | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |
| SDSQCLTK | CLIST | Any | U | PDS | FB | 80 | 34 | 5 |
| SDSQEXCK | EXEC | Any | U | PDS | FB | 80 | 14 | 5 |
| SDSQMAPK | DATA | Any | U | PDS | FB | 400 | 5 | 5 |
| SDSQMLBK | MSG | Any | U | PDS | FB | 80 | 7 | 5 |
| SDSQPLBK | PANEL | Any | U | PDS | FB | 80 | 22 | 5 |
| SDSQPVRK | DATA | Any | U | PDS | V | 32622 | 150 | 5 |
| SDSQSAMK | SAMPLE | Any | U | PDS | FB | 80 | 16 | 5 |
| SDSQSAPK | SAMPLE | Any | U | PDS | FB | 80 | 56 | 15 |
| SDSQTLBK | TBL | Any | U | PDS | FB | 80 | 5 | 10 |
| SDSQUSRK | SAMPLE | Any | U | PDS | FB | 80 | 26 | 5 |

Figure 36. Storage Requirements for QMF Z Client Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|----------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| AFQMBASE | U | PDS | FB | 80 | 2 | 5 |
| AFQMEXEC | U | PDS | FB | 80 | 1 | 2 |
| AFQMLANG | U | PDS | VB | 256 | 13 | 2 |
| AFQMLoad | U | PDSE | U | 0 | 570 | N/A |
| AFQM Parm | U | PDS | FB | 80 | 1 | 2 |
| AFQMSkel | U | PDS | FB | 80 | 1 | 2 |

Figure 37. Storage Requirements for QMF for TSO/CICS Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ADSQBASE | U | PDS | FB | 80 | 9 | 5 |
| ADSQCHRT | U | PDS | FB | 400 | 2 | 5 |
| ADSQCLTE | U | PDS | FB | 80 | 34 | 5 |
| ADSQDBRM | U | PDS | FB | 80 | 10 | 5 |
| ADSQEXCE | U | PDS | FB | 80 | 14 | 5 |
| ADSQLOAD | U | PDS | U | 0 | 7 | 5 |
| ADSQMAPE | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBE | U | PDS | FB | 80 | 6 | 5 |
| ADSQOBJ | U | PDS | U | 0 | 1005 | 200 |
| ADSQPLBE | U | PDS | FB | 80 | 19 | 10 |
| ADSQPVRE | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAPE | U | PDS | FB | 80 | 51 | 15 |
| ADSQSLBE | U | PDS | FB | 80 | 6 | 5 |
| ADSQTLBE | U | PDS | FB | 80 | 17 | 5 |
| ADSQUSRE | U | PDS | FB | 80 | 26 | 5 |

Figure 38. Storage Requirements for QMF HPO Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ARAACLST | U | PDS | FB | 80 | 20 | 5 |
| ARAADB RM | U | PDS | FB | 80 | 40 | 5 |
| ARAAEXEC | U | PDS | FB | 80 | 5 | 5 |
| ARAAISPM | U | PDS | FB | 80 | 25 | 20 |
| ARAAISPP | U | PDS | FB | 80 | 160 | 90 |
| ARAALOAD | U | PDS | U | 0 | 250 | 15 |
| ARAASAMP | U | PDS | FB | 80 | 20 | 10 |
| ARAASKEL | U | PDS | FB | 80 | 120 | 5 |

| <i>Figure 39. Storage Requirements for QMF applications Distribution Libraries</i> | | | | | | |
|--|----------------------------|----------------------|----------------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
| ADYQCFG | U | PDS | FB | 80 | 5 | 5 |

| <i>Figure 40. Storage Requirements for QMF Data Service Distribution Libraries</i> | | | | | | |
|--|----------------------------|----------------------|----------------------------------|----------------------------------|-------------------------------------|------------------------------------|
| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
| ACQDBASE | U | PDS | FB | 80 | 15 | 5 |
| ACQDCNTL | U | PDS | FB | 80 | 30 | 10 |
| ACQDDBRM | U | PDS | FB | 80 | 50 | 5 |
| ACQDEXEC | U | PDS | FB | 80 | 60 | 5 |
| ACQDLOAD | U | PDSE | U | 0 | 3000 | N/A |
| ACQDMAP | U | PDS | FB | 2048 | 20 | 10 |
| ACQDMENU | U | PDS | FB | 80 | 10 | 5 |
| ACQDOBJX | U | PDS | FB | 80 | 35 | 5 |
| ACQDPENU | U | PDS | FB | 80 | 50 | 25 |
| ACQDRPC | U | PDSE | U | 0 | 60 | N/A |
| ACQDSAMP | U | PDS | FB | 80 | 30 | 15 |
| ACQDSLIB | U | PDS | FB | 80 | 5 | 5 |
| ACQDSMAP | U | PDS | FB | 2048 | 1050 | 30 |
| ACQDTENU | U | PDS | FB | 80 | 5 | 5 |
| ACQDXATH | U | PDS | FB | 80 | 15 | 10 |
| ACQDXCMD | U | PDS | FB | 80 | 10 | 5 |
| ACQDXEXEC | U | PDS | FB | 80 | 12 | 5 |
| ACQDXSQL | U | PDS | FB | 80 | 15 | 5 |
| ACQDXTOD | U | PDS | FB | 80 | 5 | 5 |
| ACQDXVTB | U | PDS | FB | 80 | 5 | 5 |

Figure 41 (Page 1 of 5). Storage Requirements for QMF Enterprise Edition - NLV Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ADSQCLTH | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCH | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPH | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBH | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBH | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRH | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMH | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPH | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBH | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRH | U | PDS | FB | 80 | 16 | 5 |
| ADSQCLTP | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCP | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPP | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBP | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBP | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRP | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMP | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPP | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBP | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRP | U | PDS | FB | 80 | 16 | 5 |
| ADSQCLTS | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCS | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPS | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBS | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBS | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRS | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMS | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPS | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBS | U | PDS | FB | 80 | 16 | 5 |

Figure 41 (Page 2 of 5). Storage Requirements for QMF Enterprise Edition - NLV Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ADSQUSRS | U | PDS | FB | 80 | 16 | 5 |
| ADSQCLTV | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCV | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPV | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBV | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBV | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRV | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMV | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPV | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBV | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRV | U | PDS | FB | 80 | 16 | 5 |
| ADSQCLTY | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCY | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPY | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBY | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBY | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRV | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMY | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPY | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBY | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRY | U | PDS | FB | 80 | 16 | 5 |
| ADSQCLTZ | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCZ | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPZ | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBZ | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBZ | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRZ | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMZ | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPZ | U | PDS | FB | 80 | 51 | 15 |

Figure 41 (Page 3 of 5). Storage Requirements for QMF Enterprise Edition - NLV Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ADSQTLBZ | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRZ | U | PDS | FB | 80 | 26 | 5 |
| ADSQCLTC | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCC | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPC | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBC | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBC | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRC | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMC | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPC | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBC | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRC | U | PDS | FB | 80 | 26 | 5 |
| ADSQCLTU | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCU | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPU | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBU | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBU | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRU | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMU | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPU | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBU | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRU | U | PDS | FB | 80 | 26 | 5 |
| ADSQCLTQ | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCQ | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPQ | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBQ | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBQ | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRQ | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMQ | U | PDS | FB | 80 | 16 | 5 |

Figure 41 (Page 4 of 5). Storage Requirements for QMF Enterprise Edition - NLV Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ADSQSAPQ | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBQ | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRQ | U | PDS | FB | 80 | 26 | 5 |
| ADSQCLTF | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCF | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPF | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBF | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBF | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRF | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMF | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPF | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBF | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRF | U | PDS | FB | 80 | 26 | 5 |
| ADSQCLTD | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCD | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPD | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBD | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBD | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRD | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMD | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPD | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBD | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRD | U | PDS | FB | 80 | 26 | 5 |
| ADSQCLTI | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCI | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPI | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBI | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBI | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRI | U | PDS | V | 32622 | 150 | 5 |

Figure 41 (Page 5 of 5). Storage Requirements for QMF Enterprise Edition - NLV Distribution Libraries

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| ADSQSAMI | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPI | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBI | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRI | U | PDS | FB | 80 | 26 | 5 |
| ADSQCLTK | U | PDS | FB | 80 | 16 | 5 |
| ADSQEXCK | U | PDS | FB | 80 | 16 | 5 |
| ADSQMAPK | U | PDS | FB | 400 | 5 | 5 |
| ADSQMLBK | U | PDS | FB | 80 | 16 | 5 |
| ADSQPLBK | U | PDS | FB | 80 | 26 | 5 |
| ADSQPVRK | U | PDS | V | 32622 | 150 | 5 |
| ADSQSAMK | U | PDS | FB | 80 | 16 | 5 |
| ADSQSAPK | U | PDS | FB | 80 | 51 | 15 |
| ADSQTLBK | U | PDS | FB | 80 | 16 | 5 |
| ADSQUSRK | U | PDS | FB | 80 | 26 | 5 |

The following figures list data sets that are not used by SMP/E, but are required for QMF Enterprise Edition - NLV to run.

The following figures list data sets that are not used by SMP/E, but are required for QMF Enterprise Edition - NLV to run.

Figure 42 (Page 1 of 2). Storage Requirements for QMF Enterprise Edition - NLV Non-SMP/E Data Sets

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| DSQPNLE | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPNLH | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPNLP | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPNLS | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPNLV | U | VSAM | VS | 32756 | 135 | n/a |

Figure 42 (Page 2 of 2). Storage Requirements for QMF Enterprise Edition - NLV Non-SMP/E Data Sets

| Library DDNAME | T Y P E | O R G | R E C F M | L R E C L | No. of 3390 Trks | No. of DIR Blks |
|-------------------|------------------|-------------|-----------------------|-----------------------|---------------------------|--------------------------|
| DSQPPLY | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPNLZ | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPPLC | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPPLU | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPPLQ | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPPLF | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPPLD | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPPLI | U | VSAM | VS | 32756 | 135 | n/a |
| DSQPPLK | U | VSAM | VS | 32756 | 135 | n/a |

5.3 FMIDs Deleted

Installing QMF Enterprise Edition - NLV might result in the deletion of other FMIDs. To see which FMIDs will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install QMF Enterprise Edition - NLV into separate SMP/E target and distribution zones.

Note: These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E Commands book for details.

5.4 Special Considerations

- Db2 QMF TSO and CICS Clients' Special Requirements:
 - Operates on any z Systems hardware configuration that supports the required software.
 - Runs on any processor that is supported by the operating system. Some operations, however, will not work with columns that contain decimal floating point data if the processor on which QMF is running does not support decimal floating point instructions.
 - Accesses all of the DASD devices that are supported by z/OS and Db2 for z/OS, as well as all display devices supported by Graphical Data Display Manager (GDDM).
 - To implement a national language feature that uses a double-byte character set (DBCS), you need a workstation that supports DBCS. Ensure that this device is supported by GDDM.

- When you plan your region size, consider the storage required to load modules during initialization and the virtual storage requirements for report operations.
- Restriction: For TSO only, consider the amount of space required to run applications other than Db2 QMF.
- Db2 QMF Data Service Special Requirements:
 - Operates on any z Systems hardware configuration that supports the required software
 - Runs on any processor that is supported by the operating system

5.4.1 PDSE Considerations

QMF Enterprise Edition - NLV uses the "partitioned data set extended" or PDSE format for the SCQDLOAD, SCQDCLOD, and SCQDRPC target libraries. There are some operational differences between PDS and PDSE data sets. The PDS format may be shared by more than one z/OS system and no special precautions are necessary. However the PDSE format may only be shared by z/OS systems which are part of a sysplex or which are connected using Global Resource Serialization (are in a GRS complex). If z/OS systems share use of a PDSE data set outside of a sysplex or GRS environment, you may experience severe problems when the data set is updated. This is due to the fact that PDSE directory information is cached in storage, and when the data set is updated from one system the other system(s) have no knowledge of the update, and their cached directory information will be incorrect.

You must take care not to share the SCQDLOAD, SCQDCLOD, and SCQDRPC data sets between z/OS systems unless they are in a sysplex or are connected in a GRS complex. If you need to share the content of the SCQDLOAD, SCQDCLOD, and SCQDRPC data sets, a separate copy must be created for each z/OS system.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of QMF Enterprise Edition - NLV.

Please note the following points:

- If you want to install QMF Enterprise Edition - NLV into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets.
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing QMF Enterprise Edition - NLV

6.1.1 SMP/E Considerations for Installing QMF Enterprise Edition - NLV

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of QMF Enterprise Edition - NLV.

6.1.2 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 43. Using values lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

| <i>Figure 43. SMP/E Options Subentry Values</i> | | |
|---|---------------|---|
| Subentry | Value | Comment |
| DSSPACE | (500,500,500) | 3390 DASD tracks |
| PEMAX | SMP/E Default | IBM recommends using the SMP/E default for PEMAX. |

6.1.3 SMP/E CALLLIBS and SIDE DECK PROCESSING

QMF Enterprise Edition - NLV uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When QMF Enterprise Edition - NLV is installed, ensure that DDDEFs exist for the following libraries:

- CSSLIB
- SADMMOD
- SCCNOBJ
- SCEELKED
- SCEESPC
- SCSQLOAD
- SDFHLOAD
- SISPLoad

QMF Enterprise Edition - NLV also uses Side Deck processing during link-edits. When QMF Enterprise Edition - NLV is installed, ensure that the DDDEFs exist for the following libraries:

- SDSNLOAD

6.1.4 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install IBM Db2 QMF Enterprise Edition - NLV.

| <i>Figure 44 (Page 1 of 2). Sample Installation Jobs</i> | | | |
|--|-----------------|--|-------------------------|
| Job Name | Job Type | Description | SMPTLIB Data Set |
| FQMALA | ALLOCATE | Sample allocate for SMP/E CSI for QMF Z Client | IBM.HFQMD10.F1 |
| FQMALB | ALLOCATE | Sample allocate for SMPE datasets for QMF Z Client | IBM.HFQMD10.F1 |
| FQMRECV | RECEIVE | Sample RECEIVE job for QMF Z Client | IBM.HFQMD10.F1 |
| FQMALLOC | ALLOCATE | Sample job to allocate target and distribution libraries for QMF Z Client | IBM.HFQMD10.F1 |
| FQMDDEF | DDDEF | Sample job to define SMP/E DDDEFs for QMF Z Client | IBM.HFQMD10.F1 |
| FQMAPPLY | APPLY | Sample APPLY job for QMF Z Client | IBM.HFQMD10.F1 |
| FQMACCPT | ACCEPT | Sample ACCEPT job for QMF Z Client | IBM.HFQMD10.F1 |
| DSQALA | SMP/E | Sample job to allocate and initialize a new SMP/E CSI data set (Optional) | IBM.HSQDD10.F2 |
| DSQALB | SMP/E | Sample job to allocate SMP/E data sets (Optional) | IBM.HSQDD10.F2 |

| <i>Figure 44 (Page 2 of 2). Sample Installation Jobs</i> | | | |
|--|-----------------|---|-------------------------|
| Job Name | Job Type | Description | SMPTLIB Data Set |
| DSQRECV1 | RECEIVE | Sample RECEIVE job for QMF TSO/CICS Base | IBM.HSQDD10.F2 |
| DSQRECV2 | RECEIVE | Sample RECEIVE job for QMF HPO | IBM.HSQDD10.F2 |
| DSQRECV3 | RECEIVE | Sample RECEIVE job for QMF applications | IBM.HSQDD10.F2 |
| CQDRECV4 | RECEIVE | Sample RECEIVE job for QMF Data Service | IBM.HQDCC10.F2 |
| DSQRECVE | RECEIVE | Sample RECEIVE job for QMF Enterprise Edition Identifier | IBM.HSQDD10.F2 |
| DSQALLOC | ALLOCATE | Sample job to allocate target and distribution libraries for QMF (TSO/CICS, HPO and QMF applications) | IBM.HSQDD10.F2 |
| CQDALOC4 | ALLOCATE | Sample job to allocate target and distribution libraries for QMF Data Service | IBM.HQDCC10.F2 |
| DSQDDEF | DDDEF | Sample job to define SMP/E DDDEFs for QMF (TSO/CICS, HPO and QMF applications) | IBM.HSQDD10.F2 |
| CQDDDEF4 | DDDEF | Sample job to define SMP/E DDDEFs for QMF Data Service | IBM.HQDCC10.F2 |
| DSQAPPLY | APPLY | Sample APPLY job for QMF (TSO/CICS, HPO and QMF applications) | IBM.HSQDD10.F2 |
| CQDAPLY4 | APPLY | Sample APPLY job for QMF Data Service | IBM.HQDCC10.F2 |
| DSQAPLYE | APPLY | Sample APPLY job for QMF Enterprise Edition Identifier | IBM.HSQDD10.F2 |
| DSQACCEP | ACCEPT | Sample ACCEPT job for QMF (TSO/CICS, HPO and QMF applications) | IBM.HSQDD10.F2 |
| CQDACCE4 | ACCEPT | Sample ACCEPT job for QMF Data Service | IBM.HQDCC10.F2 |
| DSQACCEE | ACCEPT | Sample ACCEPT job for QMF Enterprise Edition Identifier | IBM.HSQDD10.F2 |

You can access the sample installation jobs by performing an SMP/E RECEIVE (refer to 6.1.7, “Perform SMP/E RECEIVE” on page 64) then copy the jobs from the SMPTLIB data sets to a work data set for editing and submission. See Figure 44 on page 46 to find the appropriate data set.

You can also copy the sample installation jobs from the product files by submitting the following job. Before you submit the job, add a job card and change the lowercase parameters to uppercase values to meet the requirements of your site.

```

//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//IN DD DSN=IBM.HSQDD10.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(primary,secondary,dir))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=IN,OUTDD=OUT
/*

```

See the following information to update the statements in the previous sample:

IN:

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT:

jcl-library-name is the name of the output data set where the sample jobs are stored.

dasdvol is the volume serial of the DASD device where the output data set resides.

```

//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//*****
/* Make the //TAPEIN DD statement below active if you install*
/* from a CBPDO tape by uncommenting the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HSQDD10.F2,UNIT=tunit,
/* VOL=SER=volser,LABEL=(x,SL),
/* DISP=(OLD,KEEP)
/*TAPEIN2 DD DSN=IBM.HQDCC10.F2,UNIT=tunit,
/* VOL=SER=volser,LABEL=(x,SL),
/* DISP=(OLD,KEEP)
/*TAPEIN3 DD DSN=IBM.HFQMD10.F1,UNIT=tunit,
/* VOL=SER=volser,LABEL=(x,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //TAPEIN DD statement below active if you install*
/* from a product tape received outside the CBPDO process *
/* (using the optional SMP/E RECEIVE job) by uncommenting *
/* the DD statement below. *
//*****
/*TAPEIN DD DSN=IBM.HSQDD10.F2,UNIT=tunit,
/* VOL=SER=SQDD10,LABEL=(3,SL),
/* DISP=(OLD,KEEP)
/*TAPEIN2 DD DSN=IBM.HQDCC10.F2.,UNIT=tunit,
/* VOL=SER=QDCC10,LABEL=(3,SL),
/* DISP=(OLD,KEEP)
/*TAPEIN3 DD DSN=IBM.HFQMD10.F1,UNIT=tunit,
/* VOL=SER=FQMD10,LABEL=(2,SL),
/* DISP=(OLD,KEEP)
//*****
/* Make the //FILEIN DD statement below active for *
/* downloaded DASD files. *
//*****
/*FILEIN DD DSN=IBM.HSQDD10.F2,UNIT=SYSALLDA,DISP=SHR,
/* VOL=SER=filevol
/*FILEIN2 DD DSN=IBM.HQDCC10.F2.,UNIT=SYSALLDA,DISP=SHR,
/* VOL=SER=filevol
/*FILEIN3 DD DSN=IBM.HFQMD10.F1.,UNIT=SYSALLDA,DISP=SHR,
/* VOL=SER=filevol
//OUT DD DSN=jc1-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(TRK,(20,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
COPY INDD=yyyyIN,OUTDD=OUT

```

```
COPY INDD=zzzzIN,OUTDD=OUT  
/*
```

See the following information to update the statements in the previous sample:

TAPEIN/TAPEIN2/TAPEIN3:

tunit is the unit value that matches the product package.

volser is the volume serial that matches the product package.

x is the tape file number that indicates the location of the data set name on the tape.

See the documentation that is provided by CBPDO for the location of IBM.HSQDD10.F2, IBM.HQDCC10.F2 and IBM.HFQMD10.F1 on the tape.

FILEIN/FILEIN2/FILEIN3:

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT:

jcl-library-name is the name of the output data set where the sample jobs are stored.

dasdvol is the volume serial of the DASD device where the output data set resides.

SYSIN:

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

yyyyIN is either TAPEIN2 or FILEIN2 depending on your input DD statement.

zzzzIN is either TAPEIN3 or FILEIN3 depending on your input DD statement.

6.1.4.1 Sample Jobs for National Language Version for QMF Korean

| <i>Figure 45. Sample Installation Jobs for QMF Korean</i> | | | |
|---|----------|--|----------------|
| Job Name | Job Type | Description | RELFILE |
| DSQHRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD5A.F2 |
| DSQHALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD5A.F2 |
| DSQHDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD5A.F2 |
| DSQHAPLY | APPLY | Sample APPLY job | IBM.JSQDD5A.F2 |
| DSQHACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD5A.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 45 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD5A.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD5A.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD5A.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.2 Sample Jobs for National Language Version for QMF Brazilian Portuguese

Figure 46. Sample Installation Jobs for QMF Brazilian Portuguese

| Job Name | Job Type | Description | RELFILE |
|----------|----------|--|----------------|
| DSQPRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD5B.F2 |
| DSQPALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD5B.F2 |
| DSQPDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD5B.F2 |
| DSQPAPLY | APPLY | Sample APPLY job | IBM.JSQDD5B.F2 |
| DSQPACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD5B.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 46 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD5B.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD5B.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSN=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD5B.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.3 Sample Jobs for National Language Version for QMF Spanish

| <i>Figure 47. Sample Installation Jobs for QMF Spanish</i> | | | |
|--|----------|--|----------------|
| Job Name | Job Type | Description | RELFILE |
| DSQSRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD5C.F2 |
| DSQSALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD5C.F2 |
| DSQSDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD5C.F2 |
| DSQSAPLY | APPLY | Sample APPLY job | IBM.JSQDD5C.F2 |
| DSQSACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD5C.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 47 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD5C.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD5C.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD5C.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.4 Sample Jobs for National Language Version for QMF Swedish

Figure 48. Sample Installation Jobs for QMF Swedish

| Job Name | Job Type | Description | RELFILE |
|----------|----------|--|----------------|
| DSQVRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD5D.F2 |
| DSQVALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD5D.F2 |
| DSQVDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD5D.F2 |
| DSQVAPLY | APPLY | Sample APPLY job | IBM.JSQDD5D.F2 |
| DSQVACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD5D.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 48 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD5D.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD5D.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD5D.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.5 Sample Jobs for National Language Version for QMF Swiss French

| <i>Figure 49. Sample Installation Jobs for QMF Swiss French</i> | | | |
|---|----------|--|----------------|
| Job Name | Job Type | Description | RELFILE |
| DSQYRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD5E.F2 |
| DSQYALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD5E.F2 |
| DSQYDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD5E.F2 |
| DSQYAPLY | APPLY | Sample APPLY job | IBM.JSQDD5E.F2 |
| DSQYACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD5E.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 49 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD5E.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD5E.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD5E.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.6 Sample Jobs for National Language Version for QMF Swiss German

Figure 50. Sample Installation Jobs for QMF Swiss German

| Job Name | Job Type | Description | RELFIL |
|----------|----------|--|----------------|
| DSQZRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD5F.F2 |
| DSQZALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD5F.F2 |
| DSQZDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD5F.F2 |
| DSQZAPLY | APPLY | Sample APPLY job | IBM.JSQDD5F.F2 |
| DSQZACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD5F.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 50 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD5F.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD5F.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSN=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD5F.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.7 Sample Jobs for National Language Version for QMF Canadian French

Figure 51. Sample Installation Jobs for QMF Canadian French

| Job Name | Job Type | Description | RELFILE |
|-----------|----------|--|----------------|
| DSQCRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD5G.F2 |
| DSQCALLOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD5G.F2 |
| DSQCDDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD5G.F2 |
| DSQCAPLY | APPLY | Sample APPLY job | IBM.JSQDD5G.F2 |
| DSQACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD5G.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 51 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD5G.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD5G.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSN=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD5G.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.8 Sample Jobs for National Language Version for QMF Uppercase English

Figure 52. Sample Installation Jobs for QMF Uppercase English

| Job Name | Job Type | Description | RELFILE |
|----------|----------|--|----------------|
| DSQURECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD51.F2 |
| DSQUALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD51.F2 |
| DSQUDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD51.F2 |
| DSQUAPLY | APPLY | Sample APPLY job | IBM.JSQDD51.F2 |
| DSQUACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD51.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 52 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD51.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD51.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD51.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.9 Sample Jobs for National Language Version for QMF Danish

| <i>Figure 53. Sample Installation Jobs for QMF Danish</i> | | | |
|---|----------|--|----------------|
| Job Name | Job Type | Description | RELFILE |
| DSQQRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD55.F2 |
| DSQQALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD55.F2 |
| DSQQDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD55.F2 |
| DSQQAPLY | APPLY | Sample APPLY job | IBM.JSQDD55.F2 |
| DSQQACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD55.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 53 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD55.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD55.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD55.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.10 Sample Jobs for National Language Version for QMF French

Figure 54. Sample Installation Jobs for QMF French

| Job Name | Job Type | Description | RELFIL |
|----------|----------|--|----------------|
| DSQFRCV | RECEIVE | Sample RECEIVE job | IBM.JSQDD56.F2 |
| DSQFALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD56.F2 |
| DSQFDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD56.F2 |
| DSQFAPLY | APPLY | Sample APPLY job | IBM.JSQDD56.F2 |
| DSQFACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD56.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 54 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD56.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD56.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSN=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD56.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.11 Sample Jobs for National Language Version for QMF German

| <i>Figure 55. Sample Installation Jobs for QMF German</i> | | | |
|---|----------|--|----------------|
| Job Name | Job Type | Description | RELFILE |
| DSQDRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD57.F2 |
| DSQDALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD57.F2 |
| DSQDDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD57.F2 |
| DSQDAPLY | APPLY | Sample APPLY job | IBM.JSQDD57.F2 |
| DSQDACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD57.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 55 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD57.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD57.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD57.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.12 Sample Jobs for National Language Version for QMF Italian

Figure 56. Sample Installation Jobs for QMF Italian

| Job Name | Job Type | Description | RELFIL |
|----------|----------|--|----------------|
| DSQIRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD58.F2 |
| DSQIALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD58.F2 |
| DSQIDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD58.F2 |
| DSQIAPLY | APPLY | Sample APPLY job | IBM.JSQDD58.F2 |
| DSQIACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD58.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 56 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD58.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD58.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSN=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD58.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.4.13 Sample Jobs for National Language Version for QMF Japanese

| <i>Figure 57. Sample Installation Jobs for QMF Japanese</i> | | | |
|---|----------|--|----------------|
| Job Name | Job Type | Description | RELFILE |
| DSQKRECV | RECEIVE | Sample RECEIVE job | IBM.JSQDD59.F2 |
| DSQKALOC | ALLOCATE | Sample job to allocate target/distribution libraries | IBM.JSQDD59.F2 |
| DSQKDDEF | DDDEF | Sample job to define SMP/E DDDEFs | IBM.JSQDD59.F2 |
| DSQKAPLY | APPLY | Sample APPLY job | IBM.JSQDD59.F2 |
| DSQKACEP | ACCEPT | Sample ACCEPT job | IBM.JSQDD59.F2 |

You can access the sample installation jobs by performing a SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 57 for the relfile data set.

You may also choose to copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JSQDD59.F2,UNIT=tunit,
// VOL=SER=volser,LABEL=(3,SL),DISP=(OLD,KEEP)
//FILEIN DD DSN=IBM.JSQDD59.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSNAME=jcl-library-name,DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,SPACE=(TRK,(15,10,5))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
```

In the sample above, update the statements as noted below:

If using TAPEIN:

tunit is the unit value matching the product tape.

volser is the volume serial matching the product tape.

x is the tape file number where the data set name is on the tape.

Refer to the documentation provided by CBPDO to see where IBM.JSQDD59.F2 is on the tape.

If using FILEIN

filevol is the volume serial of the DASD device where the downloaded files reside.

OUT

jcl-library-name is the name of the output data set where the sample jobs will be stored.

dasdvol is the volume serial of the DASD device where the output data set will reside.

SYSIN

xxxxIN is either TAPEIN or FILEIN depending on your input DD statement.

6.1.5 Allocate SMP/E CSI (Optional)

If you are using an existing CSI, do not execute this job.

If you are allocating a new SMP/E data set for this install, edit and submit sample job DSQALA to allocate the SMP/E data set for QMF Enterprise Edition - NLV. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.6 Initialize CSI zones (Optional)

If you are using an existing CSI, do not execute this job.

Edit and submit sample job DSQALB to initialize SMP/E zones for QMF Enterprise Edition - NLV. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.7 Perform SMP/E RECEIVE

If you have obtained QMF Enterprise Edition - NLV as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the QMF Enterprise Edition - NLV FMIDs, service, and HOLDDATA that are included on the CBPDO package. For more information, see the documentation that is included in the CBPDO.

1. You can also choose to edit and submit sample job FQMRECV to perform the SMP/E RECEIVE for QMF Z Client. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

2. You can also choose to edit and submit sample job DSQRECV1 to perform the SMP/E RECEIVE for QMF TSO/CICS Base. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

3. You can also choose to edit and submit sample job DSQRECV2 to perform the SMP/E RECEIVE for QMF HPO. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

4. You can also choose to edit and submit sample job DSQRECV3 to perform the SMP/E RECEIVE for QMF applications. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

5. You can also choose to edit and submit sample job CQDRECV4 to perform the SMP/E RECEIVE for QMF Data Service. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6. You can also choose to edit and submit sample job DSQRECV to perform the SMP/E RECEIVE for QMF Enterprise Edition Identifier. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

7. You may also edit and submit a sample job below to perform the SMP/E RECEIVE for the National Language Version you have selected.

- DSQHRCV - National Language Version for QMF Korean
- DSQPRECV - National Language Version for QMF Brazilian Portuguese
- DSQSRECV - National Language Version for QMF Spanish
- DSQVRECV - National Language Version for QMF Swedish
- DSQYRECV - National Language Version for QMF Swiss French
- DSQZRECV - National Language Version for QMF Swiss German
- DSQCRCV - National Language Version for QMF Canadian French
- DSQURECV - National Language Version for QMF Uppercase English
- DSQQRCV - National Language Version for QMF Danish
- DSQFRECV - National Language Version for QMF French
- DSQDRCV - National Language Version for QMF German
- DSQIRECV - National Language Version for QMF Italian
- DSQKRCV - National Language Version for QMF Japanese

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.8 Allocate SMP/E Target and Distribution Libraries

1. Edit and submit sample job FQMALLOC to allocate the SMP/E target and distribution libraries for QMF Z Client. Consult the instructions in the sample job for more information.
2. Edit and submit sample job DSQALLOC to allocate the SMP/E target and distribution libraries for QMF Enterprise Edition - NLV. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

3. Edit and submit sample job CQDALOC4 to allocate the SMP/E target and distribution libraries for QMF Data Service. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

4. You may also edit and submit a sample job below to allocate the SMP/E target and distribution libraries of the National Language Version you have selected.

- DSQHALLOC - National Language Version for QMF Korean
- DSQPALLOC - National Language Version for QMF Brazilian Portuguese
- DSQSALLOC - National Language Version for QMF Spanish
- DSQVALLOC - National Language Version for QMF Swedish
- DSQYALLOC - National Language Version for QMF Swiss French
- DSQZALLOC - National Language Version for QMF Swiss German
- DSQCALLOC - National Language Version for QMF Canadian French
- DSQUALLOC - National Language Version for QMF Uppercase English
- DSQQALLOC - National Language Version for QMF Danish

- DSQFALOC - National Language Version for QMF French
- DSQDALOC - National Language Version for QMF German
- DSQIALOC - National Language Version for QMF Italian
- DSQKALOC - National Language Version for QMF Japanese

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.9 Create DDDEF Entries

1. Edit and submit sample job FQMDDEF to create DDDEF entries for the SMP/E target and distribution libraries for QMF Z Client. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

2. Edit and submit sample job DSQDDEF to create DDDEF entries for the SMP/E target and distribution libraries for QMF Enterprise Edition - NLV. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

3. Edit and submit sample job CQDDDEF4 to create DDDEF entries for the SMP/E target and distribution libraries for QMF Data Service. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

4. You may also edit and submit a sample job below to create DDDEF entries for the SMP/E target and distribution libraries of the National Language Version you have selected.

- DSQHDDEF - National Language Version for QMF Korean
- DSQPDDEF - National Language Version for QMF Brazilian Portuguese
- DSQSDDEF - National Language Version for QMF Spanish
- DSQVDDEF - National Language Version for QMF Swedish
- DSQYDDEF - National Language Version for QMF Swiss French
- DSQZDDEF - National Language Version for QMF Swiss German
- DSQCDDEF - National Language Version for QMF Canadian French
- DSQUDEF - National Language Version for QMF Uppercase English
- DSQQDDEF - National Language Version for QMF Danish
- DSQFDDEF - National Language Version for QMF French
- DSQDDDEF - National Language Version for QMF German
- DSQIDDEF - National Language Version for QMF Italian
- DSQKDDEF - National Language Version for QMF Japanese

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6.1.10 Perform SMP/E APPLY

1. Ensure that you have the latest HOLDDATA; then edit and submit sample job FQMAPPLY to perform an SMP/E APPLY CHECK for QMF Z Client. Consult the instructions in the sample job for more information.
2. Ensure that you have the latest HOLDDATA; then edit and submit sample job DSQAPPLY to perform an SMP/E APPLY CHECK for QMF TSO/CICS Base, HPO and QMF applications. Consult the instructions in the sample job for more information.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holdata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs you are installing. If there are any applicable HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

You should install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. The SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

- a. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. You should analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixing PTFs available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.

- b. To install the FMIDs without regard for unresolved HIPER APARs, you can add the BYPASS(HOLDCLASS(HIPER)) operand to the APPLY CHECK command. This will allow you to install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are

installed, use the SMP/E REPORT ERRSYSMODS command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
..any other parameters documented in the program directory
```

This method is quicker, but requires subsequent review of the Exception SYSMOD report produced by the REPORT ERRSYSMODS command to investigate any unresolved HIPERs. If you have received the latest HOLDDATA, you can also choose to use the REPORT MISSINGFIX command and specify Fix Category IBM.PRODUCTINSTALL-REQUIREDSERVICE to investigate missing recommended service.

If you bypass HOLDs during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

Expected Return Codes and Messages from APPLY CHECK: You will receive a return code of 0 or 4 if these jobs run correctly.

You may receive any of the following messages which do not affect product installation: GIM23903I, GIM23903W, GIM23913W, IEW2454W.

3. After you take actions that are indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Note: The GROUPEXTEND operand indicates that SMP/E applies all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from APPLY: You will receive a return code of 0 or 4 if these jobs run correctly.

You may receive any of the following messages which do not affect product installation: GIM23903I, GIM23903W, GIM23913W, IEW2454W.

4. You can also choose to edit and submit sample job CQDAPLY4 to perform the SMP/E APPLY CHECK for QMF Data Service. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 or 4 if this job runs correctly. You may receive the following message for DFHEI1 in the CQDHLI module which does not affect product installation: IEW2456E. This means CICS is not setup for this installation.

After you take actions that are indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Expected Return Codes and Messages: You will receive a return code of 0 or 4 if this job runs correctly. You may also receive the following message for DFHEI1 in the CQDHLI module which does not affect product installation: IEW2456E. This means CICS is not setup for this installation.

5. You can also choose to edit and submit sample job DSQAPLYE to perform the SMP/E APPLY CHECK for QMF Enterprise Edition Identifier. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

After you take actions that are indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

6. You may also edit and submit a sample job below to perform the SMP/E APPLY CHECK of the National Language Version you have selected.

- DSQHAPLY - National Language Version for QMF Korean
- DSQPAPLY - National Language Version for QMF Brazilian Portuguese
- DSQSAPLY - National Language Version for QMF Spanish
- DSQVAPLY - National Language Version for QMF Swedish
- DSQYAPLY - National Language Version for QMF Swiss French
- DSQZAPLY - National Language Version for QMF Swiss German
- DSQCAPLY - National Language Version for QMF Canadian French
- DSQUAPLY - National Language Version for QMF Uppercase English
- DSQQAPLY - National Language Version for QMF Danish
- DSQFAPLY - National Language Version for QMF French
- DSQDAPLY - National Language Version for QMF German
- DSQIAPLY - National Language Version for QMF Italian
- DSQKAPLY - National Language Version for QMF Japanese

Expected Return Codes and Messages from APPLY CHECK: You will receive a return code of 0 if this job runs correctly.

After the APPLY CHECK completes successfully remove the CHECK and run the job again to perform the APPLY.

Expected Return Codes and Messages from APPLY: You will receive a return code of 0 if this job runs correctly.

6.1.11 Perform SMP/E ACCEPT

1. Edit and submit sample job FQMACCPT to perform an SMP/E ACCEPT CHECK for QMF Z Client. Consult the instructions in the sample job for more information.

Edit and submit sample job DSQACCEP to perform an SMP/E ACCEPT CHECK QMF TSO/CICS Base, HPO and QMF applications. Consult the instructions in the sample job for more information.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the ACCEPT CHECK. The SMP/E root cause analysis identifies the cause of *errors* but not *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced

from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands book for details.

After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Note: The GROUPEXTEND operand indicates that SMP/E accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

Expected Return Codes and Messages from ACCEPT CHECK: You will receive a return code of 0 if this job runs correctly.

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing will link-edit or bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages, because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

Expected Return Codes and Messages from ACCEPT: You will receive a return code of 0 if this job runs correctly.

2. You can also choose to edit and submit sample job CQDACCE4 to perform the SMP/E ACCEPT CHECK for QMF Data Service. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 or 4 if this job runs correctly. You may receive the following message for DFHEI1 in the CQDHLI module which does not affect product installation: IEW2456E. This means CICS is not setup for this installation.

After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Expected Return Codes and Messages: You will receive a return code of 0 or 4 if this job runs correctly. You may receive the following message for DFHEI1 in the CQDHLI module which does not affect product installation: IEW2456E. This means CICS is not setup for this installation.

3. You can also choose to edit and submit sample job DSQACCEE to perform the SMP/E ACCEPT CHECK for QMF Enterprise Edition Identifier. Consult the instructions in the sample job for more information.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

After you take actions that are indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Expected Return Codes and Messages: You will receive a return code of 0 if this job runs correctly.

4. You may also edit and submit a sample job below to perform the SMP/E ACCEPT CHECK of the National Language Version you have selected.

- DSQHACEP - National Language Version for QMF Korean
- DSQPACEP - National Language Version for QMF Brazilian Portuguese
- DSQSACEP - National Language Version for QMF Spanish
- DSQVACEP - National Language Version for QMF Swedish

- DSQYACEP - National Language Version for QMF Swiss French
- DSQZACEP - National Language Version for QMF Swiss German
- DSQCACEP - National Language Version for QMF Canadian French
- DSQUACEP - National Language Version for QMF Uppercase English
- DSQQACEP - National Language Version for QMF Danish
- DSQFACEP - National Language Version for QMF French
- DSQDACEP - National Language Version for QMF German
- DSQIACEP - National Language Version for QMF Italian
- DSQKACEP - National Language Version for QMF Japanese

Expected Return Codes and Messages from ACCEPT CHECK: You will receive a return code of 0 if this job runs correctly.

After the ACCEPT CHECK completes successfully remove the CHECK and run the job again to perform the ACCEPT.

Expected Return Codes and Messages from ACCEPT: You will receive a return code of 0 if this job runs correctly.

6.1.12 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command identifies requisites for products that are installed in separate zones. This command also creates APPLY and ACCEPT commands in the SMPPUNCH data set. You can use the APPLY and ACCEPT commands to install those cross-zone requisites that the SMP/E REPORT CROSSZONE command identifies.

After you install QMF Enterprise Edition - NLV, it is recommended that you run REPORT CROSSZONE against the new or updated target and distribution zones. REPORT CROSSZONE requires a global zone with ZONEINDEX entries that describe all the target and distribution libraries to be reported on.

For more information about REPORT CROSSZONE, see the SMP/E manuals.

6.2 Activating QMF Enterprise Edition - NLV

Once the SMP/E installation is completed for QMF Enterprise Edition - NLV, the QMF VSAM panel library, DSQPNLE, must be populated. The VSAM data set DSQPNLE was created when QMF SMP/E job, DSQALLOC (allocate QMF target and distribution libraries), was run in section 6.1.8 "Allocate SMP/E Target and Distribution Libraries" of this Program Directory.

Edit the job SDSQSAPE(DSQ1EPNL). Modify the job card and the variable QMFTPRES to the QMF target library prefix. Submit the job and verify that it runs successfully. This job will copy member DSQPNLE from the SDSQPVRE target library to the VSAM panel data set.

Run the corresponding job for each QMF National Language Version being accessed.

Figure 58. NLV Activating Jobs

| Language | Job | Description |
|--------------------------|--------------------|---|
| QMF Korean | SDSQSAPH(DSQ1HPNL) | Copy SDSQPVRH(DSQPNLH) to the VSAM panel data set DSQPNLH |
| QMF Brazilian Portuguese | SDSQSAPP(DSQ1PPNL) | Copy SDSQPVRP(DSQPNLP) to the VSAM panel data set DSQPNLP |
| QMF Spanish | SDSQSAPS(DSQ1SPNL) | Copy SDSQPVRS(DSQPNLS) to the VSAM panel data set DSQPNLS |
| QMF Swedish | SDSQSAPV(DSQ1VPNL) | Copy SDSQPVRV(DSQPNLV) to the VSAM panel data set DSQPNLV |
| QMF Swiss French | SDSQSAPY(DSQ1YPNL) | Copy SDSQPVRV(DSQPNLY) to the VSAM panel data set DSQPNLY |
| QMF Swiss German | SDSQSAPZ(DSQ1ZPNL) | Copy SDSQPVRZ(DSQPNLZ) to the VSAM panel data set DSQPNLZ |
| QMF Canadian French | SDSQSAPC(DSQ1CPNL) | Copy SDSQPVRC(DSQPNLC) to the VSAM panel data set DSQPNLC |
| QMF Uppercase English | SDSQSAPU(DSQ1UPNL) | Copy SDSQPVRU(DSQPNLU) to the VSAM panel data set DSQPNLU |
| QMF Danish | SDSQSAPQ(DSQ1QPNL) | Copy SDSQPVRQ(DSQPNLQ) to the VSAM panel data set DSQPNLQ |
| QMF French | SDSQSAPF(DSQ1FPNL) | Copy SDSQPVRF(DSQPNLF) to the VSAM panel data set DSQPNLF |
| QMF German | SDSQSAPD(DSQ1DPNL) | Copy SDSQPVRD(DSQPNLD) to the VSAM panel data set DSQPNLD |
| QMF Italian | SDSQSAPI(DSQ1IPNL) | Copy SDSQPVRF(DSQPNLI) to the VSAM panel data set DSQPNLI |
| QMF Japanese | SDSQSAPK(DSQ1KPNL) | Copy SDSQPVRD(DSQPNLK) to the VSAM panel data set DSQPNLI |

6.3 Product Customization

The publication *Getting Started with QMF Z Client*, SC28-3263, contains the step-by-step procedures to customize and use QMF Z Client.

The publication *Installing and Managing Db2 QMF for TSO and CICS*, SC28-2788, contains the step-by-step procedures to customize and use QMF for TSO/CICS and QMF applications.

The publication *IBM Db2 QMF Data Service Customization Guide*, SC28-3265, contains the necessary information to customize and use QMF Data Service.

The publication *Db2 High Performance Option User's Guide for TSO and CICS*, SC28-3269, contains the necessary information to customize and use QMF HPO.

The complete library of QMF publications may be found in the online product documentation at the following site;

<https://www.ibm.com/docs/en/qmf>

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Printed in USA

G113-5538-00

