

Program Directory for IBM DB2 UDB Server for z/OS QMF Distributed Edition National Language Version

V08.01.00

Program Number 5625-DB2

FMID HRQW810

for Use with z/OS

Document Date: March 2004

Note!							
efore using this age 23.	nformation and	the product it	supports, be s	ure to read the	e general inforn	nation under 7.0	, "Notices" on

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1.0 Introduction

This Program Directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of QMF Distributed Edition.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 4 identifies the basic and optional program materials and documentation for QMF Distributed Edition.
- 3.0, "Program Support" on page 9 describes the IBM support available for QMF Distributed Edition.
- 4.0, "Program and Service Level Information" on page 10 lists the APARs (program level) and PTFs (service level) incorporated into QMF Distributed Edition.
- 5.0, "Installation Requirements and Considerations" on page 11 identifies the resources and considerations required for installing and using QMF Distributed Edition.
- 6.0, "Installation Instructions" on page 17 provides detailed installation instructions for QMF Distributed Edition. It also describes the procedures for activating the functions of QMF Distributed Edition, or refers to appropriate publications.

Before installing QMF Distributed Edition, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that were supplied with this program in softcopy form as well as this Program Directory and then keep them for future reference. Section 3.2, "Preventive Service Planning" on page 9 tells you how to find any updates to the information and procedures in this Program Directory.

QMF Distributed Edition is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory is provided in softcopy form on the CBPDO tape which is identical to the hardcopy form provided with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for QMF Distributed Edition are included on the CBPDO tape.

Do not use this Program Directory if you are installing QMF Distributed Edition with a SystemPac or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the Program Directory as required.

1.1 QMF Distributed Edition Description

IBM DB2 Query Management Facility (QMF) Distributed Edition V8.1 provides robust access to multiple DB2 database platforms through Web browsers and Windows workstations.

QMF Distributed Edition V8.1 includes:

- QMF for Windows (19 national language versions)
- QMF for WebSphere (19 national language versions)
- QMF Visionary Studio (English)

QMF Distributed Edition enables enterprise-wide:

- querying
- · reporting
- · data visualization
- · rapid application development
- · centralized end user management

in single- or multiple-platform database environments that include:

- DB2 Universal Database for z/OS and OS/390
- DB2 Server for VSE & VM
- DB2 Universal Database (AIX, Linux, HP-UX, Sun, and Windows)
- DB2 Universal Database for iSeries
- ODBC-compliant databases from other vendors

QMF is designed to promote the distribution of business intelligence throughout the enterprise, scale to virtually any need, and deliver excellent return on DB2 investments through advanced database query processing and support for existing DB2 security.

QMF simplifies tasks associated with accessing, visualizing, and integrating data and covers a broad base of business needs, making end users capable of quickly developing and sharing:

- · Structured Query Language (SQL) queries
- · Summary, across, and other types of reports
- Multidimensional analysis
- Charts
- Spatial data maps
- · Spreadsheets and other popular applications populated with data warehouse or operational data

In addition, the QMF family supports task automation and rapid application development through:

- · QMF procedure scripting
- Query and expression building tools
- An application programming interface (API) included in QMF for Windows
- 2 QMF Distributed Edition Program Directory

Note: The QMF Distributed Edition provides QMF for Windows and QMF Visionary Studio on a CD/ROM, and QMF for WebSphere on a CD/ROM and alternatively on a SMP/E installable tape. This program directory will guide the user through the installation of QMF for WebSphere from tape using SMP/E.

1.2 QMF Distributed Edition FMID

QMF Distributed Edition consists of the following FMID: HRQW810 (QMF WebSphere z/OS)

2.0 Program Materials

An IBM program is identified by a program number and feature numbers. The program number for QMF Distributed Edition is 5625-DB2 and the feature numbers are 6017, 6018, 5989, and 6016.

The QMF Distributed Edition feature provides QMF for Windows and QMF Visionary Studio on a CD/ROM, and QMF for WebSphere on a CD/ROM and alternatively on a SMP/E installable tape. This section refers to the QMF for WebSphere tape product.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature numbers, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature numbers, and are not required for the product to function.

The program announcement material describes the features supported by QMF Distributed Edition. 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 magnetic tape or downloadable files. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 17 for more information about how to install the program.

The QMF Distributed Edition feature also includes the following three products on CD/ROM, QMF for WebSphere, QMF for Windows and QMF Visionary Studio. Please refer to the specific CD/ROM for installation instructions for that product.

Information about the physical tape for the Basic Machine-Readable Materials for QMF Distributed Edition can be found in the CBPDO Memo To Users Extension.

Figure 1 describes the program file content for QMF Distributed Edition. You can refer to the *CBPDO Memo To Users Extension* to see where the files reside on the tape.

Notes:

- 1. The data set attributes in this table should be used in the JCL of jobs reading the data sets, but since the data sets are in IEBCOPY unloaded format, their actual attributes may be different.
- 2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 1. Program File Content				
		R	L	
	0	E C	R E	
	R	F	C	BLK
Name	G	М	L	SIZE
SMPMCS	SEQ	FB	80	6400
IBM.HRQW810.F1	PDS	FB	80	8800

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for QMF Distributed Edition.

2.3 Program Publications

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

2.3.1 Basic Program Publications

Figure 2 identifies the basic unlicensed or licensed publications that are not available in hardcopy form, but are available through the internet or other media for QMF Distributed Edition.

To order copies, contact your IBM representative or visit the IBM Publications Center on the world wide web to order or view publications at:

http://www.ibm.com/shop/publications/order

You may also find these publications in PDF format on the product CDs that shipped with the QMF Distributed Edition feature.

Figure 2. Basic Material: Other Unlicensed or Licensed Publications				
Publication Title	Form Number	How Available		
Installing and Managing DB2 QMF for Windows and DB2 QMF for WebSphere	GC18-7448	internet or CD/ROM		
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SC18-7449	internet or CD/ROM		
DB2 QMF Visionary Studio Getting Started Guide	GC18-9092	internet or CD/ROM		
DB2 QMF Visionary Studio Developer's Guide	SC18-9093	internet or CD/ROM		

Note: The above QMF publications are also provided in PDF format on CD "DB2 UDB for z/OS Version 8 Licensed Library Collection", LK3T-7128, shipped with DB2 UDB for z/OS V8.1.

Figure 3. Basic Material: Other Unlicensed or Licensed Publications - French				
Publication Title	Form Number	How Available		
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SC11-2026	internet		

Figure 4. Basic Material: Other Unlicensed or Licensed Publications - German					
Publication Title	Form Number	How Available			
Installing and Managing DB2 QMF for Windows and DB2 QMF for Websphere	SC12-3279	internet			
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SC12-3280	internet			

Figure 5. Basic Material: Other Unlicensed or Licensed Publications - Italian				
Publication Title	Form Number	How Available		
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SC13-3161	internet		

Figure 6. Basic Material: Other Unlicensed or Licensed Publications - Japanese				
Publication Title	Form Number	How Available		
Installing and Managing DB2 QMF for Windows and DB2 QMF for WebSphere	GC88-9839	Internet		
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SC88-9840	Internet		

Figure 7. Basic Material: Other Unlicensed or Licensed Publications - Korean				
Publication Title	Form Number	How Available		
Installing and Managing DB2 QMF for Windows and DB2 QMF for WebSphere	GA30-2035	internet		
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SA30-2036	internet		

Figure 8. Basic Material: Other Unlicensed or Licensed Publications - Brazilian Portuguese				
Form Publication Title Number How Available				
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	S517-7796	internet		

Figure 9. Basic Material: Other Unlicensed or Licensed Publications - Spanish				
Form Publication Title Number How Available				
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SC10-3933	internet		

Figure 10. Basic Material: Other Unlicensed or Licensed Publications - Egyptian (Arabic)		
Form Publication Title Number How Available		
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	SC20-2212	internet

Figure 11. Basic Material: Other Unlicensed or Licensed Publications - Chinese (T-Chinese/Tawain)		
Form Publication Title Number How Available		
Installing and Managing DB2 QMF for Windows and DB2 QMF for WebSphere	GC40-1853	Internet
Getting Started with DB2 QMF for Windows and DB2 QMF for WebSphere	GC40-1854	internet

Figure 12. Basic Material: Other Unlicensed or Licensed Publications - Portuguese		
Form Publication Title Number How Available		
Getting Started with DB2 QMF for Windows and DB2 QMF SC17-5433 internet for WebSphere		

2.3.2 Optional Program Publications

No optional publications are provided for QMF Distributed Edition.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for QMF Distributed Edition.

2.5 Publications Useful During Installation

The publications listed in Figure 13 may be useful during the installation of QMF Distributed Edition. To order copies, contact your IBM representative or visit the IBM Publications Center on the World Wide Web at:

http://www.ibm.com/shop/publications/order

Figure 13. Publications Useful During Installation	
Publication Title	Form Number
IBM SMP/E for z/OS and OS/390 User's Guide	SA22-7773
IBM SMP/E for z/OS and OS/390 Commands	SA22-7771
IBM SMP/E for z/OS and OS/390 Reference	SA22-7772
IBM SMP/E for z/OS and OS/390 Messages, Codes, and Diagnosis	GA22-7770

3.0 Program Support

This section describes the IBM support available for QMF Distributed Edition.

3.1 Program Services

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

3.2 Preventive Service Planning

Before installing QMF Distributed Edition, you must review the current Preventive Service Planning (PSP) information. If you obtained QMF Distributed Edition as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO.

If the CBPDO for QMF Distributed Edition is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

For program support, access the Software Support web site at http://www-3.ibm.com/software/support/

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 Distributed Edition are:

Figure 14. PSP Upgrade and Subset ID			
UPGRADE SUBSET Description			
DB2810	HRQW810	QMF WebSphere z/OS	

3.3 Statement of Support Procedures

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

Figure 15 identifies the component IDs (COMPID) for QMF Distributed Edition.

Figure 15. Component IDs			
FMID	COMPID	Component Name	RETAIN Release
HRQW810	5668RQW01	QMF WebSphere z/OS	810

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of QMF Distributed Edition. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs incorporated into the program.

The QMF Distributed Edition feature provides QMF for WebSphere on a CD/ROM and alternatively on a SMP/E installable tape. This section refers to service for the QMF for WebSphere product tape.

The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated.

4.1 Program Level Information

All APARs which were closed before 03/19/04 are incorporated into the QMF Distributed Edition V8.1 product, except APARs PQ84998 and PQ84894 have not been incorporated into the QMF Distributed Edition FMID HRQW810.

4.2 Service Level Information

All PTFs which were closed before 03/19/04 are incorporated into the QMF Distributed Edition V8.1 product, except PTFs UQ85843 and UQ85859 which will need to be installed right after the QMF Distributed Edition V8.1 product FMID HRQW810 is SMP/E APPLYed.

Note: PTF UQ85859 must be installed in order to use QMF for WebSphere with any one of the following languages.

- Japanese
- Korean
- French
- Italian
- German
- Spanish
- · Brazilian Portuguese
- Swedish
- Danish

- Portuguese
- Arabic
- · Traditional Chinese
- Swiss French
- · Swiss German
- · Canadian French
- · Belgian French
- Swiss Italian
- Hebrew

5.0 Installation Requirements and Considerations

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

The QMF Distributed Edition feature provides QMF for WebSphere on a CD/ROM and alternatively on a SMP/E installable tape. This section refers to the installation of QMF for WebSphere from tape. The following terminology is used:

- Driving system: the system used to install the program.
- Target system: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should 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.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old
 one. By installing onto a separate target system, you can test the new product while still keeping the
 old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can
 disrupt the other products. Installing onto a test system or clone will allow you to 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 Distributed Edition.

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 16 (Page	Figure 16 (Page 1 of 2). Driving System Software Requirements	
Program Number		
Any one of the fol	llowing:	
5647-A01	OS/390 V2.10.0	

Figure 16 (Page 2 of 2). Driving System Software Requirements	
Program Product Name and Number Minimum VRM/Service Level	
5694-A01	z/OS V1.01.0 or later
5655-G44	IBM SMP/E for z/OS and OS/390 V3.02.0 or later

5.2 Target System Requirements

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

QMF Distributed Edition 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: An installation requisite is defined as a product that is required and must be present or one that is not required but should be present on the system for the successful installation of this product.

A mandatory installation requisite identifies products that are required, without exception, or this product will not install on your system. This includes products specified as PREs or REQs.

Figure 17. Manda	Figure 17. Mandatory Installation Requisites		
Program Product Name and Number Minimum VRM/Service Level			
Any one of the foll	lowing:		
5625-DB2	DB2 UDB for z/OS V8.01.00 or later		
5675-DB2	DB2 UDB for OS/390 V7.01.00		
5645-DB2	DB2 UDB for OS/390 V6.01.00		

Note: For additional installation requisites and steps to perform after SMP/E installation work is complete, please refer to the publication, Installing and Managing DB2 QMF for Windows and DB2 QMF for WebSphere, GC18-7448.

A conditional installation requisite identifies products that are not required for successful install but may resolve such things as certain warning messages at installation time. They include products that are specified as IF REQs.

QMF Distributed Edition has no conditional installation requisites.

5.2.2.2 Operational Requisites: An operational requisite is defined as a product that is required and must be present or a product that is not required but should be present on the system in order for this product to operate all or some of its functions.

A mandatory operational requisite identifies products that are required, without exception, or this product will not operate its basic function unless the requisite is met. This includes products specified as PREs or REQs.

Figure 18. Mandatory Operational Requisites		
Program Number	Product Name and Minimum VRM/Service Level	
5655-F31	WebSphere Application Server V4.00.01 for z/OS and OS/390 or later	
Any one of the fol	Any one of the following:	
5625-DB2	DB2 UDB for z/OS V8.01.00 or later	
5675-DB2	DB2 UDB for OS/390 V7.01.00	
5645-DB2	DB2 UDB for OS/390 V6.01.00	

Note: For additional operational requisites and steps to perform after SMP/E installation work is complete, please refer to the publication, Installing and Managing DB2 QMF for Windows and DB2 QMF for WebSphere, GC18-7448.

A conditional operational requisite identifies products that are not required for the basic function but are needed at run time for this product to utilize specific functions. They may include products specified as IF REQs.

Figure 19. Co	onditional Operational Requisites	
Program Number	Product Name and Minimum VRM/Service Level	Function
5625-DB2	DB2 UDB for z/OS V8.01.00, QMF for WebSphere FMID HRQW810 with PTF UQ83086	National Language Versions of QMF for WebSphere

5.2.2.3 Toleration/Coexistence Requisites: A toleration/coexistence requisite is defined as a product which must be present on a sharing system. 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 at different time intervals.

QMF Distributed Edition has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites: A negative requisite identifies products which must *not* be installed on the same system as this product.

QMF Distributed Edition has no negative requisites.

5.2.3 DASD Storage Requirements

QMF Distributed Edition libraries can reside on all supported DASD types.

Figure 20 lists the total space required for each type of library.

Figure 20. T	Figure 20. Total DASD Space Required by QMF Distributed Edition	
Library Type	Total Space Required	
Target	20 (3390) Blocks	
Distribution	820 (3390) Blocks	
HFS	10848 Sectors (512 bytes per sector)	

Notes:

- 1. IBM recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets. IBM recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.
- 2. Abbreviations used for the data set type are:
 - Unique data set, allocated by this product and used only by this product. To determine the correct storage needed for this data set, this table provides all required information; no other tables (or Program Directories) need to be referenced for the data set size.
 - S Shared data set, allocated by this product and used by this product and others. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to 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.
 - Ε Existing shared data set, used by this product and others. This data set is NOT allocated by this product. To determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). This existing data set 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 one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not 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 on the names and sizes of the required data sets, please refer to 6.1.7, "Allocate SMP/E Target and Distribution Libraries" on page 20.

- 3. Abbreviations used for the HFS Path type are:
 - Ν New path, created by this product.
 - X Path created by this product, but may already exist from a previous release.
 - Ρ 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 may be changed.
 - The default block size of the data set may be changed.
 - The data set may be merged with another data set that has equivalent characteristics.
 - The data set may be either a PDS or a PDSE.
- 5. All target libraries listed have the following attributes:
 - The data set may be SMS-managed.
 - It is not required for the data set to be SMS-managed.
 - It is not required for the data set to reside on the IPL volume.
 - The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS.
- 6. All target libraries listed which contain load modules have the following attributes:
 - The data set may be in the LPA.
 - It is not required for the data set to be in the LPA.
 - The data set may be in the LNKLST.
 - It is not required for the data set to be APF-authorized.

The following figures describe the target and distribution libraries and HFS paths required to install QMF Distributed Edition. The storage requirements of QMF Distributed Edition must be added to the storage required by other programs having data in the same library or path.

Note: The data in these tables should be used when determining 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 21. Storage Requirements for QMF Distributed Edition Target Libraries								
					R	L		
			T		Ε	R	No.	No.
			Υ	0	С	E	of	of
Library	Member	Target	Р	R	F	С	3390	DIR
DDNAME	Туре	Volume	E	G	M	L	Trks	Blks
SRQWBASE	SAMPLE	any	U	PDS	FB	80	4	5

Figure 22. QM	F Distribu	uted Edition HFS Paths
	Т	
	Υ	
	Р	
DDNAME	E	Path Name
SRQWHFS	N	/usr/lpp/qmf/IBM/

Figure 23. Storage Requirements for QMF Distributed Edition Distribution Libraries						
			R	L		
	Т		Ε	R	No.	No.
	Υ	0	С	Ε	of	of
Library	Р	R	F	С	3390	DIR
DDNAME	E	G	M	L	Trks	Blks
ARQWBASE	U	PDS	FB	80	4	5
ARQWHFS	U	PDS	VB	256	151	20

5.3 FMIDs Deleted

Installing QMF Distributed Edition may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install QMF Distributed Edition into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

QMF Distributed Edition has no special considerations for the target 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 Distributed Edition.

The QMF Distributed Edition feature provides QMF for WebSphere on a CD/ROM and alternatively on a SMP/E installable tape. This section refers to the installation of QMF for WebSphere from tape.

Please note the following:

- If you want to install QMF Distributed Edition 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.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

6.1 Installing QMF Distributed Edition

6.1.1 SMP/E Considerations for Installing QMF Distributed Edition

This release of QMF Distributed Edition is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 24. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

Figure 24. SMP/E Options Subentry Values						
SUB-ENTRY	Value	Comment				
DSSPACE	(200,200,500)	3390 DASD Tracks				
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.				

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6.1.3 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install QMF Distributed Edition:

Figure 25. Sample Installation Jobs							
Job Name	Job Type	Description	RELFILE				
RQWALA	SMP/E	Sample job to allocate and initialize a new SMP/E CSI data set (Optional)	IBM.HRQW810.F1				
RQWALB	SMP/E	Sample job to allocate SMP/E data sets (Optional)	IBM.HRQW810.F1				
RQWRECEV	RECEIVE	Sample RECEIVE job	IBM.HRQW810.F1				
RQWALLOC	ALLOCATE	Sample job to allocate target and distribution libraries	IBM.HRQW810.F1				
RQWISMKD	MKDIR	Sample job to invoke the supplied RQWMKDIR EXEC to allocate HFS paths	IBM.HRQW810.F1				
RQWDDDEF	DDDEF	Sample job to define SMP/E DDDEFs	IBM.HRQW810.F1				
RQWAPPLY	APPLY	Sample APPLY job	IBM.HRQW810.F1				
RQWACCEP	ACCEPT	Sample ACCEPT job	IBM.HRQW810.F1				

You can access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the relfiles to a work data set for editing and submission. See Figure 25 to find the appropriate 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.HRQW810.F1,UNIT=tunit,
           VOL=SER=volser, LABEL=(x,SL),
//
//
           DISP=(OLD, KEEP)
//FILEIN
           DD DSN=IBM.HRQW810.F1,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
    SELECT MEMBER=(RQWALA, RQWALB, RQWISMKD, RQWMKDIR)
```

```
SELECT MEMBER=(RQWRECEV,RQWALLOC,RQWDDDEF,RQWAPPLY,RQWACCEP)
/*
```

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.HRQW810.F1 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 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 RQWALA to allocate the SMP/E data set for QMF Distributed Edition.

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

6.1.5 Initialize CSI zones (Optional)

Edit and submit sample job RQWALB to initialize SMP/E zones for QMF Distributed Edition. 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 Perform SMP/E RECEIVE

Having obtained QMF Distributed Edition as part of a CBPDO, use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the QMF Distributed Edition FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

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

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

6.1.7 Allocate SMP/E Target and Distribution Libraries

Edit and submit sample job RQWALLOC to allocate the SMP/E target and distribution libraries for QMF Distributed Edition. 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.

6.1.8 Allocate HFS Paths

Edit and submit sample job RQWISMKD to allocate the HFS paths for QMF Distributed Edition. Consult the instructions in the sample job for more information.

The RQWISMKD job invokes the RQWMKDIR exec to create the QMF directory under -PathPrefix-/usr/lpp where -PathPrefix- is the high level directory name. Insure the directory path -PathPrefix-/usr/lpp exists prior to running the job.

If you plan to create a new HFS for this product, you should consider updating the BPXPRMxx PARMLIB member to mount the new HFS at IPL time. This may be helpful if an IPL occurs before the installation is complete.

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

6.1.9 Create DDDEF Entries

Edit and submit sample job RQWDDDEF to create DDDEF entries for the SMP/E target and distribution libraries for QMF Distributed Edition. 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.

6.1.10 Perform SMP/E APPLY

Edit and submit sample job RQWAPPLY to perform an SMP/E APPLY CHECK for QMF Distributed Edition. Consult the instructions in the sample job for more information.

This job must run on a system that has z/OS UNIX or OS/390 UNIX in full-function mode (with the shell and utilities available) and have access to the file system containing the QMF for WebSphere HFS path -PathPrefix-/usr/lpp. The user ID under which the job executes must be defined to use z/OS UNIX or OS/390 UNIX (must have an OMVS segment). In addition, the user ID must have access permissions to the -PathPrefix-usr/lpp directory so that it can create subdirectories. Superuser status is required to preserve access permission bits.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do not bypass the following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of ERRORS and not of WARNINGS (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Once you have taken any actions 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 apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

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

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

Note! -

Make sure the PTF which was listed under section 4.2, "Service Level Information" on page 10 is installed after this SMP/E ACCEPT step.

6.1.11 Perform SMP/E ACCEPT

Edit and submit sample job RQWACCEP to perform an SMP/E ACCEPT CHECK for QMF Distributed Edition. 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 following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of ERRORS and not of WARNINGS (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

Once you have taken any actions 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 accept 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 containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder may issue messages documenting unresolved external references, resulting in a return code of 4 from the ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and the unresolved external references will 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.

6.1.12 Run REPORT CROSSZONE

The SMP/E REPORT CROSSZONE command will identify requisites defined for products that have been installed in separate zones. This command will also create APPLY and ACCEPT commands in the SMPPUNCH data set which you can use to install those cross-zone requisites it identifies.

After you have installed QMF Distributed Edition, 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 describing all the target and distribution libraries to be reported on.

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

6.2 Activating QMF Distributed Edition

After the SMP/E installation of QMF Distributed Edition, the following z/OS shell command should be run to expand the installation archive into the various components for the QMF for WebSphere product. Run this command from the -PathPrefix-/usr/lpp/qmf/ directory:

jar -xf ./ARQWHFS.JAR

Refer to the ASCII readme.txt file you will find in the -PathPrefix-/usr/lpp/gmf/ directory. The publication Installing and Managing DB2 QMF for Windows and DB2 QMF for WebSphere, GC18-7448 contains the step-by-step procedures to activate the functions of QMF Distributed Edition.

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Program Directory for QMF Distributed Edition, March 2004

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Ease of product installation	1	2	3	4	5	N
Contents of Program Directory	1	2	3	4	5	Ν
Installation Verification Programs	1	2	3	4	5	Ν
Time to install the product	1	2	3	4	5	Ν
Readability and organization of Program Directory tasks	1	2	3	4	5	Ν
Necessity of all installation tasks	1	2	3	4	5	Ν
Accuracy of the definition of the installation tasks	1	2	3	4	5	Ν
Technical level of the installation tasks	1	2	3	4	5	Ν
Ease of getting the system into production after installation	1	2	3	4	5	N

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