IBM

Program Directory for

IBM MQ for z/OS

Value Unit Edition

Continuous Delivery

9.2.2

Program Number 5655-VU9

for use with
z/OS

Continuous Delivery release refreshed with PTFs for 9.2.2 function

Document Date: April 2021

> **Note**
>
> Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 12.

Contents

Figures

1.0 Introduction

IBM MQ for z/OS Value Unit Edition 9.2 has two types of release; a Long Term Support (LTS) release and a Continuous Delivery (CD) release. The differences between these two are documented in detail at http://www.ibm.com/support/knowledgecenter/en/SSFKSJ_9.2.0/com.ibm.mq.pla.doc/q004715_.htm. This program directory describes installation of the FMIDs associated with the Continuous Delivery release.

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 MQ for z/OS Value Unit Edition. This publication refers to IBM MQ for z/OS Value Unit Edition as IBM MQ VUE.

The Program Directory contains the following sections:

- 2.0, "Program Materials" on page 3 identifies the basic program materials and documentation for IBM MQ VUE.

- 3.0, "Program Support" on page 5 describes the IBM support available for IBM MQ VUE.

- 4.0, "Program and Service Level Information" on page 6 lists the APARs (program level) and PTFs (service level) that have been incorporated into IBM MQ VUE.

- 5.0, "Installation Requirements and Considerations" on page 7 identifies the resources and considerations that are required for installing and using IBM MQ VUE.

- 6.0, "Installation Instructions" on page 10 provides detailed installation instructions for IBM MQ VUE. It also describes the procedures for activating the functions of IBM MQ VUE, or refers to appropriate publications.

Before installing IBM MQ VUE, 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 5 tells you how to find any updates to the information and procedures in this program directory.

IBM MQ VUE 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 IBM MQ VUE are included on the CBPDO.

Do not use this program directory if you install IBM MQ VUE with a SystemPac or 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 IBM MQ VUE Description

IBM MQ VUE 9.2.2 provides all the function of IBM MQ for z/OS 9.2.2.

IBM MQ VUE 9.2.2 is provided by installing IBM MQ for z/OS 9.2.2, 5655-MQ9 and configuring it to conform with the requirements of Value Unit Edition licensing. Further information on this step can be found in the "Installing and enabling IBM MQ for z/OS Value Unit Edition" section of the IBM MQ product documentation in IBM Knowledge Center at http://www-01.ibm.com/support/knowledgecenter/en/SSFKSJ_9.2.0/com.ibm.mq.ins.doc/q116235_.html.

IBM MQ VUE 9.2.2 can connect to other supported versions of IBM MQ for z/OS for the purpose of workload federation and systems management.

IBM MQ for z/OS 9.2.2 allows connections from MQ clients which run on other platforms, and this capability is available in the VUE edition.

1.2 IBM MQ VUE FMIDs

IBM MQ VUE consists of the following FMIDs:

HMS9CD0
JMS9CD1
JMS9CD2
JMS9CD3
JMS9CD4
JMS9CD5
JMS9CD6
JMS9CD7
JMS9CD8

┌─ **Important** ───┐

JMS9CD7 (IBM MQ for z/OS Managed File Transfer) should only be installed, and must only be used, if you have entitlement to one or more of: IBM MQ Advanced for z/OS, IBM MQ Advanced for z/OS VUE or IBM MQ MFT for z/OS.

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2.0 Program Materials

An IBM program is identified by a program number. The program number for IBM MQ VUE is 5655-VU9.

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 IBM MQ VUE. 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 10 for more information about how to install the program.

2.2 Program Publications

The following sections identify the basic publications for IBM MQ VUE.

Figure 1 identifies the basic unlicensed publications for IBM MQ VUE. Those that are in softcopy format publications can be obtained from the IBM Publications Center website at https://www.ibm.com/resources/publications

Figure 1. Basic Material: Unlicensed Publications		
Publication Title	**Form Number**	**Media Format**
IBM MQ for z/OS Value Unit Edition 9.2 License Information DVD	GC34-7386	DVD-ROM
IBM MQ for z/OS Value Unit Edition 9.2.2 Program Directory	GI13-4454	IBM Publications Center

No optional publications are provided for IBM MQ VUE.

2.3 Program Source Materials

No program source materials or viewable program listings are provided for IBM MQ VUE.

2.4 Publications Useful During Installation

You might want to use the publications listed in Figure 2 on page 4 during the installation of IBM MQ VUE.

Additionally, IBM MQ VUE 9.2.2 documentation is published in IBM Knowledge Center, which can be viewed from a web browser with Internet access at
http://www.ibm.com/support/knowledgecenter/en/SSFKSJ_9.2.0/com.ibm.mq.helphome.v92.doc/WelcomePagev9r2.html

Figure 2. Publications Useful During Installation	
Publication Title	**Form Number**
IBM SMP/E for z/OS User's Guide	SA23-2277
IBM SMP/E for z/OS Commands	SA23-2275
IBM SMP/E for z/OS Reference	SA23-2276
IBM SMP/E for z/OS Messages, Codes, and Diagnosis	GA32-0883

Note: IBM Publications Center https://www.ibm.com/resources/publications
IBM Knowledge Center https://www.ibm.com/support/knowledgecenter

3.0 Program Support

This section describes the IBM support available for IBM MQ VUE.

3.1 Program Services

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

3.2 Preventive Service Planning

Before you install IBM MQ VUE, 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-REQUIREDSERVICE fix category in SMP/E to ensure you have all the recommended service installed.

If you obtained IBM MQ VUE as part of a CBPDO, HOLDDATA is included.

If the CBPDO for IBM MQ VUE 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:

http://www14.software.ibm.com/webapp/set2/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 http://www.ibm.com/support/.

PSP Buckets are identified by UPGRADEs, which specify product levels; and SUBSETs, which specify the FMIDs for a product level. UPGRADE and SUBSET values for IBM MQ VUE are described in the Program Directory for IBM MQ for z/OS (GI13-4453).

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. The Program Directory for IBM MQ for z/OS (GI13-4453) identifies the component IDs (COMPID) for IBM MQ for z/OS Value Unit Edition.

4.0 Program and Service Level Information

This section identifies the program and relevant service levels of IBM MQ VUE. 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

No APARs have been incorporated into IBM MQ VUE. APARs for IBM MQ for z/OS are described in the Program Directory for IBM MQ for z/OS (GI13-4453).

4.2 Service Level Information

PTFs containing APAR fixes against this release of IBM MQ VUE have been incorporated into this product package. For a list of included PTFs, examine the ++VER statement in the product's SMPMCS.

It is highly recommended that you frequently check the IBM MQ VUE 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-REQUIREDSERVICE)** 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 IBM MQ VUE. 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 IBM MQ VUE.

5.1.1 Machine Requirements

See the Program Directory for IBM MQ for z/OS for details of the driving system requirements.

5.1.2 Programming Requirements

See the Program Directory for IBM MQ for z/OS for details of the programming requirements.

5.2 Target System Requirements

This section describes the environment of the target system required to install and use IBM MQ VUE.

See the Program Directory for IBM MQ for z/OS for details of the target system requirements.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software. See the Program Directory for IBM MQ for z/OS for details of the machine requirements.

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.

See the Program Directory for IBM MQ for z/OS for details of the installation requisites.

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

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.

See the Program Directory for IBM MQ for z/OS for details of the 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. See the Program Directory for IBM MQ for z/OS for details of the mandatory operational requisites.

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. See the Program Directory for IBM MQ for z/OS for details of the 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. See the Program Directory for IBM MQ for z/OS for details of the 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. See the Program Directory for IBM MQ for z/OS for details of the incompatibility (negative) requisites.

5.2.3 DASD Storage Requirements

See the Program Directories for IBM MQ for z/OS for details of the DASD storage requirements.

5.3 FMIDs Deleted

IBM MQ VUE itself involves no installation. However the installation of component products 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 being installed, IBM MQ for z/OS.

If you do not want to delete these FMIDs at this time, install the IBM MQ VUE components 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 manuals for instructions.

5.4 Special Considerations

See the Program Directory for IBM MQ for z/OS for details of the special considerations for the target system.

5.4.1 SMP/E Considerations

See the Program Directory for IBM MQ for z/OS for details of the SMP/E considerations.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of IBM MQ VUE.

Please note the following points:

- If you want to install IBM MQ VUE 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 IBM MQ VUE

The installation of IBM MQ VUE is effected by installing the IBM MQ for z/OS packages included in this offering. Follow the installation instructions in the relevant Program Directory to install each package. Included Program Directories are listed in Figure 3.

Figure 3. Program Directories included for component packages	
Included Component	**Program Directory Number**
IBM MQ for z/OS	GI13-4453

6.2 Activating IBM MQ VUE

> **Important**
>
> IBM MQ VUE contains JMS9CD7 (IBM MQ for z/OS Managed File Transfer). This FMID should only be installed, and must only be used, if you have entitlement to one or more of: IBM MQ Advanced for z/OS, IBM MQ Advanced for z/OS VUE or IBM MQ MFT for z/OS.

The activation of IBM MQ VUE is effected by activating the IBM MQ for z/OS packages included in this offering. Follow the activation instructions in the relevant Program Directory to activate each package. Included Program Directories are listed in Figure 4.

Figure 4. Program Directories included for component packages	
Included Component	**Program Directory Number**
IBM MQ for z/OS	GI13-4453

In addition to the activation steps described above, information to customize and use IBM MQ VUE is found in the "Installing and enabling IBM MQ for z/OS Value Unit Edition" section of the IBM MQ product documentation in IBM Knowledge Center at http://www-01.ibm.com/support/knowledgecenter/en/SSFKSJ_9.2.0/com.ibm.mq.ins.doc/q116235_.html.

7.0 Notices

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APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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Reader's Comments

Program Directory for IBM MQ for z/OS Value Unit Edition, April 2021

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