IBM

Program Directory for

IBM MQ Advanced for z/OS

Value Unit Edition

Long Term Support

9.2.0

Program Number 5655-AV1

HAV9200

for use with
z/OS

Document Date: August 2023

GI13-4452-02

> **Note**
>
> Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 11.

Contents

Figures

1.0 Introduction

IBM MQ Advanced for z/OS VUE 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 https://www.ibm.com/docs/SSFKSJ_9.2.0/com.ibm.mq.pla.doc/q004715_.htm. This program directory describes installation of the FMIDs associated with the Long Term Support 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 Advanced for z/OS VUE. This publication refers to IBM MQ Advanced for z/OS VUE as IBM MQ Advanced 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 Advanced VUE.

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

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

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

Before installing IBM MQ Advanced 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 Advanced 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 Advanced VUE are included on the CBPDO.

Do not use this program directory if you install IBM MQ Advanced 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 Advanced VUE Description

IBM MQ Advanced VUE is a single offering enabling customers to acquire entitlement to IBM MQ Advanced for z/OS and IBM MQ for z/OS Value Unit Edition in a single transaction.

IBM MQ for z/OS Value Unit Edition enables z/OS applications to use message queuing to participate in message-driven processing. With message-driven processing, applications can communicate across different platforms by using the appropriate MQ products. All MQ products implement a common application programming interface whatever platform the applications run on. The calls made by the applications and the messages they exchange are common.

The Managed File Transfer feature of IBM MQ Advanced for z/OS extends IBM MQ for z/OS to allow the transfer of files between systems in a managed and auditable way, regardless of file size or the operating systems used.

The Advanced Message Security feature of IBM MQ Advanced for z/OS extends IBM MQ by enabling messages flowing over IBM MQ to be encrypted so that the message contents remain secure between sending and receiving applications. These applications can be running on z/OS or other supported platforms and the applications do not require changing to make use of the capabilities of the Advanced Message Security feature.

IBM MQ Advanced for z/OS also includes a Connector Pack component containing the IBM Aspera faspio Gateway which can be used to improve the throughput of message channels over high latency, lossy networks.

1.2 IBM MQ Advanced VUE FMIDs

IBM MQ Advanced VUE consists of the following FMIDs:

HMS9200
JMS9201
JMS9202
JMS9203
JMS9204
JMS9205
JMS9206
JMS9207
JMS9208
HAV9200

2.0 Program Materials

An IBM program is identified by a program number. The program number for IBM MQ Advanced VUE is 5655-AV1.

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 Advanced 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.

You can find information about the physical media for the basic machine-readable materials for IBM MQ Advanced VUE in the *CBPDO Memo To Users Extension*.

2.2 Program Publications

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

Figure 1 identifies the basic unlicensed publications for IBM MQ Advanced VUE. The IBM MQ Advanced for z/OS VUE 9.2.0 Program Directory is available from the IBM Publications Center website. To access the program directory use a web browser with internet access to navigate to https://www.ibm.com/resources/publications and search for GI13-4452.

IBM MQ Advanced for z/OS VUE 9.2 License Information document is available from the IBM License Repository website. To access the license use a web browser with internet access to navigate to: https://www.ibm.com/support/customer/csol/terms/?cat=software-licence and search for GC34-7388.

Figure 1. Basic Material: Unlicensed Publications		
Publication Title	**Form Number**	**Media Format**
IBM MQ Advanced for z/OS VUE 9.2.0 Program Directory	GI13-4452	IBM Publications Center
IBM MQ Advanced for z/OS VUE 9.2 License Information	GC34-7388	IBM Terms website

2.2.1 Optional Program Publications

No optional publications are provided for IBM MQ Advanced VUE.

2.3 Program Source Materials

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

2.4 Publications Useful During Installation

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

Additionally, IBM MQ Advanced VUE 9.2.0 documentation is published in IBM Documentation, which can be viewed from a web browser with Internet access at https://www.ibm.com/docs/SSFKSJ_9.2.0.

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: 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 IBM MQ Advanced 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 Advanced 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 Advanced VUE as part of a CBPDO, HOLDDATA is included.

If the CBPDO for IBM MQ Advanced 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:

https://www.ibm.com/support/pages/ibmsearch

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. UPGRADE and SUBSET values for IBM MQ Advanced VUE are described in the Program Directories for IBM MQ for z/OS Value Unit Edition (GI13-4450) and IBM MQ Advanced for z/OS (GI13-4451).

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 Directories for IBM MQ for z/OS Value Unit Edition (GI13-4450) and IBM MQ Advanced for z/OS (GI13-4451) identify the component IDs (COMPID) for IBM MQ Advanced for z/OS VUE.

4.0 Program and Service Level Information

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

The Program Directories for IBM MQ for z/OS Value Unit Edition (GI13-4450) and IBM MQ Advanced for z/OS (GI13-4451) identify the APARs for IBM MQ Advanced for z/OS VUE.

4.2 Service Level Information

No PTFs against this release of IBM MQ Advanced VUE have been incorporated into the product package.

Frequently check the IBM MQ Advanced 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 Advanced 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 Advanced VUE.

5.1.1 Machine Requirements

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' driving system requirements.

5.1.2 Programming Requirements

See the Program Directories forIBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' programming requirements.

5.2 Target System Requirements

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

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' target system requirements.

5.2.1 Machine Requirements

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' 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 Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' installation requisites.

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 Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' 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 Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' 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 Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' 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 Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' 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 Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' incompatibility (negative) requisites.

5.2.3 DASD Storage Requirements

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' DASD storage requirements.

5.3 FMIDs Deleted

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the FMIDs deleted by the individual products.

5.4 Special Considerations

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' special considerations for the target system.

5.4.1 SMP/E Considerations

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of the individual products' 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 Advanced VUE.

Please note the following points:

- 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 Advanced VUE

The installation of IBM MQ Advanced VUE is effected by installing the IBM MQ Advanced for z/OS and IBM MQ for z/OS Value Unit Edition 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	GI13-4449
IBM MQ Advanced for z/OS	GI13-4451
IBM MQ for z/OS Value Unit Edition	GI13-4450

6.2 Activating IBM MQ Advanced VUE

See the Program Directories for IBM MQ Advanced for z/OS (GI13-4451) and IBM MQ for z/OS Value Unit Edition (GI13-4450) for details of activating the individual products.

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 Advanced for z/OS VUE, August 2023

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