



**Program Directory for
IBM MQ Advanced for z/OS
Value Unit Edition
Continuous Delivery**

v9.0.1

Program Number 5655-AV1

for use with
z/OS

Document Date: December 2016

GI13-3397-00

Note

Before using this information and the product it supports, be sure to read the general information under 7.0, "Notices" on page 15.

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1.0 Introduction

IBM MQ Advanced for z/OS VUE Version v9.0 has two types of release; a Long Term Support Release (LTSR) and a Continuous Delivery (CD) release. The differences between these two are documented in detail at

http://www.ibm.com/support/knowledgecenter/en/SSFKSJ_9.0.0/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 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 7 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 9 identifies the resources and considerations that are required for installing and using IBM MQ Advanced VUE.
- 6.0, “Installation Instructions” on page 13 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; then keep them for future 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 tape 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 tape.

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 for z/OS VUE is a single offering enabling existing IBM MQ Advanced VUE customers to acquire entitlement to IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition in a single transaction.

IBM MQ Advanced for z/OS VUE enables z/OS applications to use message queuing to participate in message-driven processing with other IBM MQ enabled applications either on the z/OS platform or other platforms running IBM MQ.

IBM MQ Managed File Transfer for z/OS extends the use of IBM MQ to enable files to be packaged as messages and sent over the IBM MQ network, again originating on z/OS, or on other platforms or across a combination of both.

IBM MQ Advanced Message Security 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 IBM MQ Advanced Message Security for z/OS capabilities.

IBM MQ Advanced for z/OS VUE contains all the function of IBM MQ Advanced for z/OS, but only licensed to run in zNALC (the AMS and MFT function will only run in the same LPAR as the VUE, so they too, are effectively tied to running in zNALC LPAR).

1.2 IBM MQ Advanced VUE FMIDs

IBM MQ Advanced VUE consists of the following FMIDs:

HAMS900
HMF9901
HUE9000

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 feature numbers, 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 13 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 Optional Machine-Readable Material

No optional machine-readable materials are provided for IBM MQ Advanced VUE.

2.3 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. Publications can be accessed at the IBM Publications Center website at <http://www.ibm.com/shop/publications/order/>

<i>Figure 1. Basic Material: Unlicensed</i>		
Publication Title	Form Number	Media Format
IBM MQ Advanced for z/OS VUE v9.0.1 License Information DVD	GC34-7463	DVD-ROM
IBM MQ Advanced for z/OS VUE v9.0.1 Program Directory	GI13-3397	IBM Publications Center

No optional publications are provided for IBM MQ Advanced VUE.

2.4 Program Source Materials

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

2.5 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 for z/OS VUE v9.0.1 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/SSFKSJ_9.0.0/com.ibm.mq.helphome.v90.doc/WelcomePagev9r0.htm.

Figure 2. Publications Useful During Installation

Publication Title	Form Number	Media Format
<i>IBM SMP/E for z/OS User's Guide</i>	SA23-2277	Softcopy
<i>IBM SMP/E for z/OS Commands</i>	SA23-2275	Softcopy
<i>IBM SMP/E for z/OS Reference</i>	SA23-2276	Softcopy
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA32-0883	Softcopy

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:

<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/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 IBM MQ Advanced VUE are included in Figure 3.

Figure 3. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
MQMAMS	HAMS900	IBM MQ Advanced Message Security for z/OS
MQMMFT	HMF9901	MQ FTE
MQMESA	HUE9000	IBM MQ for z/OS Value Unit Edition

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 4 on page 6 identifies the component IDs (COMPID) for IBM MQ Advanced VUE.

<i>Figure 4. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HAMS900	5655AM900	IBM MQ Advanced Message Security	900
HMF9901	5655MF900	MQ FILE TRANS EDN	901
HUE9000	5655VU900	IBM MQ for z/OS Value Unit Edition	000

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

No APARs have been incorporated into IBM MQ Advanced 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-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 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

The driving system can run in any hardware environment that supports the required software. See the Program Directories for IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition for details of the individual products' driving system requirements.

5.1.2 Programming Requirements

See the Program Directories for IBM MQ Advanced Message Security for z/OS and IBM MQ Managed File Transfer for z/OS 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 Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition for details of the individual products' target system requirements.

IBM MQ Advanced VUE installs in the z/OS (Z038) SREL.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software. See the Program Directories for IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition 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 Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition for details of the individual products' installation Requisites.

Note: Installation might require migration to new z/OS releases to be service supported. See http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.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.

IBM MQ Advanced VUE has no conditional installation requisites. See the Program Directories for IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition for details of the individual products' conditional installation requisites.

5.2.2.2 Operational Requisites: Operational requisites are products that are required by and *must* be present on the system or products that are not required by 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. These products are specified as PREs or REQs. See the Program Directories for IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition 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 Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition 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 Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition 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 Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition for details of the individual products' incompatibility (negative) requisites.

5.2.3 DASD Storage Requirements

IBM MQ Advanced VUE libraries can reside on all supported DASD types. See the Program Directories for IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition for details of the individual products' DASD storage requirements.

5.3 FMIDs Deleted

IBM MQ Advanced 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 each product being installed, IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition.

If you do not want to delete these FMIDs at this time, install the IBM MQ Advanced 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 Directories for IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer for z/OS and IBM MQ for z/OS Value Unit Edition for details of the individual products' 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 IBM MQ Advanced VUE.

Please note the following points:

- If you want to install IBM MQ Advanced 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 Advanced VUE

The installation of IBM MQ Advanced VUE is effected by installing the IBM MQ Advanced Message Security for z/OS, IBM MQ Managed File Transfer 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 5.

Figure 5. Program Directories included for component packages

Included Component	Program Directory Number
IBM MQ Managed File Transfer for z/OS	GI13-3392
IBM MQ Advanced Message Security for z/OS	GI13-3398
IBM MQ for z/OS Value Unit Edition	GI13-3395

7.0 Notices

References in this document to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe on any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, is the user's responsibility.

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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Program Directory for IBM MQ Advanced for z/OS VUE, December 2016

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