

IBM MQ for z/OS Value Unit Edition 9.2.4, IBM MQ Advanced for z/OS, 9.2.4, and IBM MQ Advanced for z/OS Value Unit Edition 9.2.4 enhancements focus on simplifying configuration and management of MQ enterprise messaging solution

Table of contents

1	Overview	6	Technical information
2	Key requirements	8	Ordering information
2	Planned availability date	12	Terms and conditions
3	Statement of general direction	17	Prices
4	Program number	18	Order now
4	Publications	18	Regional availability

Overview

IBM[®] MQ messaging middleware software is designed to simplify and accelerate the integration of diverse applications and business data across multiple platforms. It uses message queues to facilitate the exchange of information and offers a single messaging solution for cloud, mobile, Internet of Things (IoT), and on-premises environments. By connecting virtually everything, from a simple pair of applications to the most complex business environments, MQ can help organizations improve business responsiveness, control costs, reduce risk, and gain near real-time insight from mobile, IoT, and sensor data.

IBM MQ for z/OS[®], 9.2.4 connects applications, systems, and services in on-premises and hybrid cloud environments. It includes the following offerings:

- IBM MQ for z/OS Value Unit Edition 9.2.4
- IBM MQ Advanced for z/OS, 9.2.4
- IBM MQ Advanced for z/OS Value Unit Edition 9.2.4

MQ for z/OS Value Unit Edition 9.2.4 enhancements include the following:

- Greater flexibility and granularity for IBM System Management Facilities (SMF) data. Users are familiar with SMF as the standard for IBM z/OS monitoring data. This release enables users to reduce the interval at which MQ SMF data is collected. It also enables the interval for queue manager statistics (SMF 115 records) and application accounting data (SMF 116 records) to be set independently. This additional flexibility can help support analytics and machine learning processing to provide operational insights and early warning of adverse issues.
- Application Transparent Transport Layer Security (AT-TLS) best practices for MQ. AT-TLS is designed to create a secure session on behalf of an application and provide encryption and decryption of data based on policy statements rather than requiring TLS to be implemented by every application that requires a secure connection. For this release, additional documentation is provided on the [Use of AT-TLS with IBM MQ for z/OS](#) web page, including scenarios specifically tested by IBM.
- Updates to improve usability of the MQ Console. Provide the capability to download and view complete message contents from the MQ Console, enhancing

the prior previewing capability. These capabilities are configurable to provide greater control.

MQ Advanced for z/OS Value Unit Edition 9.2.4 enhancements include the following (in addition to those included within MQ for z/OS Value Unit Edition 9.2.4):

- New transfer logs for Managed File Transfer (MFT). Provide more information to the user about the activities of MFT agents, including details of both successful transfers and any failure cases. Transfer logs can assist users in resolving common problems and can also be used to supply more detailed diagnostics if required by IBM support.

MQ for z/OS, 9.2.4 is a continuous delivery (CD) release with capabilities that build on those delivered in the IBM MQ for z/OS, 9.2 Long Term Support Release (LTSR). For new MQ installations, the LTSR and CD installable software can be obtained from the IBM Shopz website. For existing MQ installations, the latest CD update can be obtained as a Program Temporary Fix (PTF) from the service stream.

For more information, see the [IBM MQ FAQ for Long Term Support and Continuous Delivery releases](#) web page.

Key requirements

MQ for z/OS, 9.2.4 offerings run on IBM Z^(R) servers that support IBM z/OS V2.3, or later.

For more details, see the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

- November 18, 2021 through the service stream
- December 3, 2021 from Shopz

Availability within a country is subject to local legal requirements.

See the [Availability of national languages](#) section for national language availability.

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Report Request](#) website.

Value Unit-based pricing

Value Unit pricing for eligible IBM Z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each IBM Z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each IBM Z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each IBM Z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for an IBM Z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each IBM Z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs.
- Aggregate the MSUs across the enterprise.
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit.
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost.

To simplify conversion from the designated measurement to Value Units or vice versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, see the [IBM Z Software Pricing](#) website.

Note that Value Units of a given program cannot be exchanged, interchanged, or aggregated with Value Units of another program.

To determine the required license capacity for the IBM Z IPLA program you selected, see the Terms and conditions section.

Statement of general direction

IBM intends to deliver the following within future releases:

- A growing number of clients are connecting MQ clients from the cloud directly into their mainframes. Memory constraints limit the number of clients that can connect into a single MQ for z/OS queue manager, in some cases causing unnatural topologies and additional overhead for tuning and monitoring. In future continuous delivery releases, IBM intends to deliver capabilities designed to relieve some of these constraints.
- IBM intends to support z/OS 2.4 as the minimum z/OS level in the next MQ Long Term Support Release.

Statements by IBM regarding its plans, directions, and intent are subject to change or withdrawal without notice at the sole discretion of IBM. Information regarding potential future products is intended to outline general product direction and should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for IBM products remain at the sole discretion of IBM.

Reference information

For general product information about MQ for z/OS, see the [IBM MQ for z/OS](#) website.

For information about IBM MQ for Multiplatforms 9.2.4, IBM MQ on Cloud, and IBM MQ Appliance 9.2.4, see Software Announcement [221-231](#), dated November 16, 2021.

For information about MQ for z/OS, 9.2.4, see Software Announcement [221-356](#), dated November 16, 2021.

Availability of national languages

Description	Availability date	Language
IBM MQ Advanced for z/OS, 9.2.4	December 3 2021	English, French, Japanese, Chinese
IBM MQ for z/OS Value Unit Edition 9.2.4	December 3, 2021	English, French, Japanese, Chinese
IBM MQ Advanced for z/OS Value Unit Edition 9.2.4	December 3, 2021	English, French, Japanese, Chinese

Translation information, if available, can be found at the [Translation Reports](#) website.

Program number

Program number	VRM	Program name
5655-AV9	9.2.4	IBM MQ Advanced for z/OS
5655-VU9	9.2.4	IBM MQ for z/OS Value Unit Edition
5655-AV1	9.2.4	IBM MQ Advanced for z/OS Value Unit Edition

Program number	Subscription and support number
5655-AV9	5655-W99
5655-VU9	5655-VSS
5655-AV1	5655-AV2

Offering Information

Product information is available on the [IBM Offering Information](#) website.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBMid).

[BP Attachment for Announcement Letter 221-355](#)

Publications

For documentation for the offerings in this announcement, see [IBM MQ 9.2](#) documentation.

The following soft-copy publications are available in PDF format to download from the [IBM Publications Center](#) website:

Title	Publication number
IBM MQ Advanced for z/OS, 9.2.4 Continuous Delivery (CD) Program Directory	GI13-4455

Title	Publication number
IBM MQ for z/OS Value Unit Edition 9.2.4 Continuous Delivery (CD) Program Directory	GI13-4454
IBM MQ Advanced for z/OS Value Unit Edition 9.2.4 Continuous Delivery (CD) Program Directory	GI13-4456

The IBM Publications Center provides a broad range of IBM publications, which can be downloaded free of charge. You can use the IBM search tool to find publications that are of specific interest to you. Please note that publications are not orderable on this site.

Services

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Lab Services are designed to help clients solve business challenges, gain new skills, and apply best practices.

Lab Services offers a wide range of infrastructure services for IBM Power^(R) servers, IBM Storage systems, IBM Z, and IBM LinuxONE. Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

IBM Consulting

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business acceleration partner to help cocreate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach, that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research^(R) and IBM Watson^(R) AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

IBM Technology Support Services (TSS)

Get preventive maintenance, onsite and remote support and gain actionable insights into critical business applications and IT systems. Speed developer innovation with end-to-end support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

The TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and other OEMs, including servers, storage, network, appliances, and software to help clients ensure high availability across their data center and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

IBM TechU

Improve your knowledge in hybrid cloud and AI solutions. IBM TechU provides the most recent content so that you can learn, engage, and increase your skills with IBM Technology specialists.

A one-year, renewable membership TechU digital membership provides access to IBM Systems online education to help address your technical enablement needs for existing and new projects.

Submit questions or comments to techuid@us.ibm.com.

For additional details, see the [IBM TechU](#) website.

IBM Expert Labs

IBM Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables them to deliver First of a Kind (FOAK) implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

IBM Security™ Expert Labs

With extensive consultative expertise on IBM Security software solutions, IBM Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak^(R) for Security, IBM Security QRadar^(R)/QRoC, IBM Security SOAR/Resilient^(R), IBM i2^(R), IBM Security Verify, IBM Security Guardium^(R), and IBM Security MaaS360^(R).

For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

Technical information

Specified operating environment

Hardware requirements

MQ for z/OS, 9.2.4 offerings run on any IBM Z server that supports z/OS V2.3, or later, with enough storage to meet the combined requirements of the programming prerequisites for the MQ for z/OS, 9.2.4 offerings, including access methods and application programs.

Software requirements

The Program Directory, which is shipped with the product, contains the latest level of information, including authorized program analysis report (APAR) and PTF levels of supported products.

For additional information, see the [System Requirements for IBM MQ 9.2](#) web page.

Compatibility

MQ for z/OS, 9.2.4 is upwardly compatible with programs written for the following products:

- IBM MQSeries^(R) for MVS/ESA, 1.2
- IBM MQSeries for OS/390^(R), 2.1
- IBM MQSeries for OS/390, 5.2
- IBM WebSphere^(R) MQ for z/OS, 5.3.1
- IBM WebSphere MQ for z/OS, 6.0
- IBM WebSphere MQ for z/OS, 7.0
- IBM WebSphere MQ for z/OS, 7.0.1
- IBM WebSphere MQ for z/OS, 7.1
- IBM MQ for z/OS, 8.0
- IBM MQ for z/OS, 9.0, LTSR and CD releases
- IBM MQ for z/OS Value Unit Edition 9.0, LTSR and CD releases
- IBM MQ for z/OS, 9.1, LTSR and CD releases
- IBM MQ Advanced for z/OS Value Unit Edition 9.1, LTSR and CD releases
- IBM MQ for z/OS, 9.2, LTSR and CD releases
- IBM MQ Advanced for z/OS Value Unit Edition 9.2, LTSR and CD releases

MQ platforms

MQ supports multiple IBM and non-IBM platform configurations. Some platforms do not support all the functions available in this product.

IBM Support

[IBM Support](#) is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the [IBM Support Insider](#).

Additional IBM support

IBM Garage™

IBM Garage is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with IBM Garage you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. IBM Garage has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. For more information, see the [IBM Garage](#) website.

IBM Z Washington System Center (WSC)

IBM Z Washington Systems Center (WSC): WSC, a team with deep technical expertise, provides technical assistance. WSC teams can help position, design, and implement solutions, and support critical situations that contribute to IBM Z, IBM

LinuxONE, and Linux^(R) on IBM Z software, hardware, and services. For installation and technical support, provided by local Technical Specialists, contact the WSC at ilin@us.ibm.com^(R).

For additional information, see the [Washington System Center -IBM Z](#) website.

Planning information

Packaging

MQ Advanced for z/OS, 9.2.4 includes the MQ Advanced for z/OS, V9.2 License Information DVD (GC34-7387).

MQ for z/OS Value Unit Edition 9.2.4 includes the MQ for z/OS Value Unit Edition V9.2 License Information DVD (GC34-7386).

MQ Advanced for z/OS Value Unit Edition 9.2.4 includes the MQ Advanced for z/OS Value Unit Edition V9.2 License Information DVD (GC34-7388) and MQ for z/OS Value Unit Edition V9.2 License Information DVD (GC34-7386).

Ordering information

Consult your IBM representative or IBM Business Partner.

Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.20

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected IBM Z IPLA product, the applicable Value Units would be:

Tier	MSUs	Multiplied by Value Units per MSU	Equal Value Units
Base	3	1.00	3.00
Tier A	42	.45	18.90
Tier B	130	.36	46.80
Tier C	140	.27	37.80
Tier D	1,185	.20	237.00
Total	1,500		343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Program number	Program name	Value Unit exhibit
5655-AV9	IBM MQ Advanced for z/OS	VUE007
5655-VU9	IBM MQ for z/OS Value Unit Edition	VUE007
5655-AV1	IBM MQ Advanced for z/OS Value Unit Edition	VUE007

Charge metric

The charge metrics for these licensed products can be found in the following License Information documents:

Program identifier	License Information document title	License Information document number
5655-AV9	IBM MQ Advanced for z/OS, V9.2	L-APIG-BMCGEA
5655-VU9	IBM MQ for z/OS Value Unit Edition V9.2	L-APIG-BMCEUM
5655-AV1	IBM MQ Advanced for z/OS Value Unit Edition V9.2	L-APIG-BMCG87

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

Basic license

On/Off CoD

The following program products are eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage:

- MQ Advanced for z/OS, 9.2.4
- MQ for z/OS Value Unit Edition 9.2.4
- MQ Advanced for z/OS Value Unit Edition 9.2.4

Program name: IBM MQ Advanced for z/OS, 9.2.4

Program number: 5655-AV9

Entitlement identifier	Description	License option/Pricing metric
S0180D3	IBM MQ Advanced for z/OS	Basic OTC, Per MSU-day TUC

Program name: IBM MQ for z/OS Value Unit Edition 9.2.4

Program number: 5655-VU9

Entitlement identifier	Description	License option/Pricing metric
S0180BN	IBM MQ for z/OS Value Unit Edition	Basic OTC, Per MSU-day TUC

Program name: IBM MQ Advanced for z/OS Value Unit Edition 9.2.4

Program number: 5655-AV1

Entitlement identifier	Description	License option/Pricing metric
S0181Z0	IBM MQ Advanced for z/OS Value Unit Edition	Basic OTC, Per MSU-day TUC

Translation from MSUs to Value Units

Tier	MSUs	Value Units/MSU
Base	1-3	1
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27

Tier	MSUs	Value Units/MSU
Tier D	316 or greater	0.2

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM MQ Advanced for z/OS

Program number: 5655-AV9

Entitlement identifier	Description	License option/Pricing metric
S0180D3	IBM MQ Advanced for z/OS, 9	Basic OTC, per Value Unit Multi-Version Measurement NC
Orderable supply ID	Description	Language
S01835F	IBM MQ Advanced for z/OS, 9 CD	English

Program name: IBM MQ for z/OS Value Unit Edition

Program number: 5655-VU9

Entitlement identifier	Description	License option/Pricing metric
S0180BN	IBM MQ for z/OS Value Unit Edition 9	Basic OTC, per Value Unit Multi-Version Measurement NC
Orderable supply ID	Description	Language
S0182XZ	IBM MQ for z/OS Value Unit Edition, 9 CD	English

Program name: IBM MQ Advanced for z/OS Value Unit Edition

Program number: 5655-AV1

Entitlement identifier	Description	License option/Pricing metric
S0181Z0	IBM MQ Advanced for z/OS Value Unit Edition	Basic OTC, per Value Unit Multi-Version Measurement NC
Orderable supply ID	Description	Language
S01835H	IBM MQ Advanced for z/OS Value Unit Edition, 9 CD	English

Program name: IBM MQ Advanced for z/OS

Subscription and Support number: 5655-W99

Entitlement identifier	Description	License option/Pricing metric
S0173LL	IBM MQ Advanced for z/OS Subscription and Support	Basic ASC, per Value Unit SW S&S, No charge, decline SW S&S, Per MSU SW S&S registration Multi-Version Measurement S&S NC
Orderable supply ID	Language	
S0173LN	English	

Program name: IBM MQ for z/OS Value Unit Edition

Subscription and Support number: 5655-VSS

Entitlement identifier	Description	License option/Pricing metric
S017CKB	IBM MQ for z/OS Value Unit Edition Subscription and Support	Basic ASC, per Value Unit SW S&S, No charge, decline SW S&S, Per MSU SW S&S registration Multi-Version Measurement S&S NC
Orderable supply ID	Language	
S017CX1	Multilingual	

Program name: IBM MQ Advanced for z/OS Value Unit Edition

Subscription and Support number: 5655-AV2

Entitlement identifier	Description	License option/Pricing metric
S0181Z3	IBM MQ Advanced for z/OS Value Unit Edition Subscription and Support	Basic ASC, per Value Unit SW S&S, No charge, decline SW S&S, Per MSU SW S&S registration Multi-Version Measurement S&S NC
Orderable supply ID	Language	
S0181Z2	English	

Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (number) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA IBM Z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

Customized Offerings

Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for internet delivery. For more details on Internet delivery, go to the Help section on the [Shopz](#) website.

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Many products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac on the planned availability date. Many products will also be orderable in a ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the ServerPac, go to the Help section on the [Shopz](#) website.

Production of software product orders will begin on the planned availability date.

- CBPDO shipments will begin within 3 business days after the planned availability date.
- ServerPac availability and shipments will begin within 3 - 4 weeks after the planned product availability date due to additional customization and data input verification.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage^(R) Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require client signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

These programs are licensed under the IBM International Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM Z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

The following License Information documents apply to the offerings in this announcement:

Program identifier	License Information document title	License Information document number
5655-AV9	IBM MQ Advanced for z/OS, V9.2	L-APIG-BMCGEA
5655-VU9	IBM MQ for z/OS Value Unit Edition V9.2	L-APIG-BMCEUM
5655-AV1	IBM MQ Advanced for z/OS Value Unit Edition V9.2	L-APIG-BMCG87

Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, see the [IBM Support Guide](#).

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

Technical support enables you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. Software Subscription and Support (Software Maintenance) also provides you with access to versions, releases, and updates (CD releases, LTSRs, or fixes) of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months notice.

MQ for z/OS 9.2.4 is a CD release. IBM will investigate defects on any supported level. Defect fixes are provided for a CD release for 12 months from general availability (GA) or while it remains one of the two most recent CD releases, whichever is longer.

For additional information about the IBM Software Support Lifecycle Policy, see the [IBM Software Support Lifecycle Policy](#) website. If you require additional technical support from IBM, contact your IBM representative or IBM Business Partner. An extension of support beyond the discontinuance date might be available for a fee.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Software Subscription and Support applies

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the program and documentation.
- Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the [IBM Support Guide](#).

Software Subscription and Support does not include assistance for:

- The design and development of applications.
- Your use of programs in other than their specified operating environment.
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, go to the [Supported product list](#) website.

IBM Operational Support Services - SoftwareXcel

Yes

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution clients.

Multi-Version Measurement

Multi-Version Measurement (MVM) replaces the previously announced Migration Grace Period time limit of six months and allows unlimited time for clients to run more than one eligible version of a software program. Clients may run multiple versions of a program simultaneously for an unlimited duration during a program version upgrade. Clients may also choose to run multiple versions of a program simultaneously for an unlimited duration in a production environment. MVM does not extend support dates for programs withdrawn from service.

For more information about MVM, including requirements for qualification, see the [MVM](#) web page. For a list of eligible programs, see the [IPLA Execution-Based](#) web page.

Sub-capacity terms and conditions

For each IBM Z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The IBM Z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the IBM Z IPLA program you selected, see the Ordering information section.

Program number	Program name	Terms
5655-AV9	IBM MQ Advanced for z/OS, 9.2.4	Execution-based
5655-VU9	IBM MQ for z/OS Value Unit Edition 9.2.4	Execution-based
5655-AV1	IBM MQ Advanced for z/OS Value Unit Edition 9.2.4	Execution-based

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full machine-based: The required capacity of an IBM Z IPLA program with these terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information on mainframe MSU-rated capacities, go to the [IBM Z software pricing resources](#) web page.

Reference-based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of an IBM Z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the IBM Z IPLA program executes.

z/OS-based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of z/OS on the machines where the IBM Z IPLA program executes.

Reference-based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full machine-based: The required license capacity of an IBM Z IPLA program with full machine-based terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information on mainframe MSU-rated capacities, see the *IBM z Systems^(R) Machines Exhibit*, Z125-3901, or see the Exhibits section on the [IBM Z software pricing resources](#) web page.

IBM Z IPLA sub-capacity programs with reference-based terms add value to the parent program across the environment, regardless of where in the environment the IBM Z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex^(R). You may have one or more different environments across the enterprise. To determine the required license capacity for each IBM Z IPLA program with referenced-based terms, each environment should be assessed separately.

When an IBM Z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the IBM Z IPLA program must equal the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

Sub-capacity eligibility

To be eligible for sub-capacity charging on select IBM Z IPLA programs, you must first implement and comply with all terms of one of the following:

- Sub-capacity Workload License Charges (WLC)
- Sub-capacity Entry Workload License Charges (EWLC)
- Sub-capacity Advanced Workload License Charges (AWLC)
- Sub-capacity Advanced Entry Workload License Charges (AEWLC)

To implement sub-capacity WLC, EWLC, AWLC, or AEWLC, a machine must be an IBM Z (or equivalent). On that machine:

- All instances of the OS/390 operating system must be migrated to the z/OS operating system.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture^(R) (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, go to the [IBM Z software pricing tools](#) web page.

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the *IBM Customer Agreement - Attachment for z Systems^(R) Workload License Charges* (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the *IBM Customer Agreement - Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges* (Z125-6587).

You must comply with all of the terms of the AWLC or AEWLC offering, whichever is applicable:

- The complete terms and conditions for AWLC are defined in the *IBM Customer Agreement - Attachment for IBM System z^(R) Advanced Workload License Charges* (Z125-8538).

- The complete terms and conditions for AEWLC are defined in the *IBM Customer Agreement - Attachment for IBM System z Advanced Entry Workload License Charges* (Z125-8755).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *IBM Amendment for IBM System z Programs Sub-Capacity Pricing*

(Z125-6929).

Once the amendment is signed, the terms in the amendment replace any and all previous IBM Z IPLA sub-capacity terms and conditions.

Sub-capacity terms and conditions

IBM Getting Started Sub-capacity Pricing for z/OS IPLA Software applies.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

On/Off CoD

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

Statement of good security practices

IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

The prices are unchanged by this announcement.

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