



IBM MQ for z/OS, V9.0 delivers new, more flexible delivery and support options, standards-based messaging support for additional environments, and improved management and administration capabilities

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At a glance

The key enhancements of IBM^(R) MQ for z/OS^(R), V9.0 include:

- Increased number of active logs
- JMS support within CICS^(R) OSGI Server
- JMS support within IMSTM server
- Additional pageset statistics
- Improved control of messages by using message expiry
- Sample for channel partner - client auditing
- Sample zOSMF workflows for Queue Manager and messaging artifact provisioning
- UTF-16 code page support

Overview

IBM MQ is a robust and secure messaging middleware offering that allows applications and system services to exchange data and files rapidly and reliably, across multiple different platforms.

For more than 20 years, IBM has led the market in messaging middleware with more than 10000 businesses across all geographies and industries that rely on IBM MQ.

IBM MQ for z/OS, V9.0 builds on the functions and capabilities that were added in earlier releases of WebSphere^(R) MQ for z/OS. You can obtain the new and enhanced functions that are offered in IBM MQ for z/OS, V9 by migrating directly to Version 9 from WebSphere MQ for z/OS, V7.1 or IBM MQ for z/OS, V8.0 without migrating to an interim version or release.

The key enhancements of IBM MQ for z/OS, V9.0 include:

- Increased number of active logs
- JMS support within CICS OSGI Server
- JMS support within IMS Server
- Additional pageset statistics
- Improved control of messages by using message expiry

- Sample for channel partner-client auditing
- Sample zOSMF workflows for Queue Manager and messaging artifact provisioning
- UTF-16 code page support

IBM MQ for z/OS, V9.0 represents the first release of a new way that IBM MQ is brought to market and supported. Previously, releases of IBM MQ deferred the addition of significant new function to major new releases of the product. Minor feature improvements were combined with defect fixes and delivered as fixes to the general availability offering. From this version of IBM MQ onwards, IBM offers a new delivery and support model that separates out the delivery of defect fixes from the delivery of any new function. Licensed clients of IBM MQ offerings can choose to consume IBM MQ through a long-term support model that contains the latest features at the time of general availability, with only defect fixes that are provided during the support cycle. An additional choice of a continuous delivery model is offered, where new function is delivered incrementally alongside defect fixes in more frequent modification-level updates. To maintain support, clients on this continuous delivery model will be required to keep their IBM MQ environment current with the continuous delivery modification-levels.

Key prerequisites

IBM MQ for z/OS, V9.0 runs on any IBM z Systems™ server that supports z/OS V2.01, with enough storage to meet the combined requirements of the programming prerequisites for IBM MQ for z/OS, the access methods, and the application programs.

Planned availability date

June 17, 2016

Description

The initial delivery of IBM MQ for z/OS, V9.0 provides the basis for both the ongoing, long term support stream and also the continuous delivery stream of updates that will be added in future modification-level updates. The key features of IBM MQ for z/OS, V9.0 provide additional valuable enhancements, but also provide the basis for future enhancements as part of the continuous delivery stream of updates.

The Version 9.0 offering enhances the core IBM MQ functions that apply across all platforms. They provide the foundation for ongoing work to enhance self-service operation for IBM MQ deployments, as well as a number of key customer-driven request for enhancements (RFEs).

IBM MQ for z/OS exploits the capabilities of the IBM z Systems platform to deliver a messaging powerhouse. IBM MQ for z/OS shared queues provides the most reliable, highly available access to messages.

The key enhancements of IBM MQ for z/OS, V9.0 include:

- Increased number of active logs that are available to be defined to a single Queue Manager from 31 to 310. This increases the availability of a queue manager in failure scenarios.
- Standards-based messaging support for applications that run within the CICS OSGI Server (CICS Transaction Server V5.2 or later) environment through use of IBM MQ classes for JMS.
- Standards-based messaging support within IMS (IMS V13 or later) environment through use of IBM MQ classes for JMS. The MQ classes for JMS use the MQ-IMS adapter which builds on IMS External Subsystem Attach Facility (ESAF).

- New pageset usage information within existing Queue Manager SMF records to facilitate better management of local queues within a queue manager by recording information such as pageset input-output rates and highest usage.
- Provision of an override capability for message expiry within a queue manager. This capability is available for point-to-point messaging or publish and subscribe.
- New sample program for examining channel partner-client information from an auditing and control perspective. The sample uses new information that is made available to channel exits, which indicate the level and type of channel partner.
- New z/OS Management Facility (z/OSMF) workflows and templates that enable simplified queue manager and queue manager resource provisioning.
- Improved Unicode support, specifically to provide full UTF-16 support.

Section 508 of the US Rehabilitation Act

IBM MQ for z/OS, V9.0 is capable, as of June 17, 2016, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Product positioning

While there are many products or components in the market that claim to provide messaging, only IBM MQ has more than 20 years of experience of providing a comprehensive, robust, and secure enterprise messaging solution, that is suitable for all types of business-critical transactional and non-transactional messaging. Most other messaging solutions are either not scalable, not as secure, or are very simplified and cannot be used to the same extent as IBM MQ.

IBM MQ can help organizations get more from their IT investments by offering a reliable and flexible integration backbone for exchanging messages between applications and web services.

- The core of application integration, delivers the reliable and proven messaging backbone for service-oriented architecture (SOA) connectivity, as the universal, multipurpose data transport. It connects many commercial IT systems, with support for more than 80 platform configurations.
 - Supports industry-standard JMS 2.0 messaging and offers a choice of APIs.
 - Interoperates with the JMS messaging services which enables Java™ EE environments to bridge to other environments.
 - Delivers a flexible connectivity solution that can grow incrementally with changing business needs.
- IBM MQ for z/OS exploits the capabilities of the IBM z Systems platform to deliver a messaging powerhouse.
- IBM WebSphere MQ for HP OpenVMS, WebSphere MQ for HP NonStop Server, and WebSphere MQ for z/VSE^(R) all extend the reach of IBM MQ to these specific computing platforms.
- IBM MQ Advanced Message Security expands the industry-standard security that is supplied by IBM MQ with end-to-end data protection for applications. It enables enterprise-wide, remote management of security policies on an MQ network and can be deployed to existing production environments without changes to existing IBM MQ applications. This capability is integrated into IBM MQ V8 on all supported platforms but is separately licensed for definition and use of policies. Licensing is included in IBM MQ Advanced.
- IBM MQ Managed File Transfer Service and IBM MQ Managed File Transfer Agents leverage both existing messaging infrastructures to provide reliable, secure managed file transfer between systems without major recoding of applications that produce and consume files instead of messages. Licensing for IBM MQ Managed File Transfer is subject to entitlement in addition to IBM MQ entitlement, but licensing for IBM MQ Managed File Transfer Service is included in IBM MQ Advanced entitlement.

- IBM MQ Telemetry provides a lightweight client to run on physical devices, such as sensors, or mobile devices (mobile phones), which extends the reach of the IBM MQ infrastructure. Connectivity to MQTT clients or the IBM MQ Telemetry Daemon for Devices is available subject to separate entitlement. Included with entitlement to IBM MQ Advanced is entitlement to deploy IBM MQ Telemetry on all supported MQ servers in the enterprise.
- WebSphere MQ Low Latency Messaging (on Linux™, Microsoft™ Windows™, and Oracle Solaris platforms) extends the IBM MQ product family with low-latency, high-throughput delivery. It is optimized for the high-volume, low-latency requirements typical of financial market firms and other industries where speed of data delivery is paramount. This is not provided with IBM MQ, but is available separately with separate entitlement. Messages can be exchanged both ways between IBM MQ and WebSphere MQ Low Latency Messaging.

IBM MQ delivers the messaging backbone that underpins and extends the IBM ESB portfolio. It supplies the transport layer that ESBs can build upon, to augment the backbone with mediation, transformation, and routing services. IBM Integration Bus adds transformation, intelligent routing, and information flow modeling to the IBM MQ messaging backbone. This ESB distributes information and data generated by business events in real time to people, applications, and devices throughout the extended enterprise and beyond.

The IBM MQ family is complemented by skills, services, and offerings from more than 800 IBM Business Partners worldwide.

In addition, [SupportPac product extensions](#) and [GitHub](#) offer additional function available as a download from the Internet.

Statement of direction

z/OS Connect Extended Edition

IBM intends that a future release of IBM MQ for z/OS will provide support for both z/OS Connect and z/OS Connect Extended Edition.

MQ Light API

IBM intends to deliver features into IBM MQ for z/OS to allow applications that are developed to the IBM MQ Light API (introduced in Version 8.0.0.4 for distributed platforms) to connect directly to IBM MQ for z/OS. This option might be considered when an application requires the qualities of service provided by an enterprise messaging platform. IBM intends to make this capability available in a future update to IBM MQ for z/OS.

CICS TS and WebSphere Liberty profile

IBM intends to deliver additional Java EE 7.x components and technologies for the CICS TS hosted WebSphere Liberty profile through continuous delivery of new features in the coming months. These additional components and technologies are intended to include support for Java EE 7.x Web Profile features, support for JMS 2.x with IBM MQ for z/OS, and the ability to LINK from a CICS TS COBOL program to a CICS TS hosted Liberty application.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it 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 our products remain at our sole discretion.

Hardware and software support services

SmoothStart/installation services

IBM SmoothStart Services and Installation Services are not provided.

Reference information

For information on IBM MQ V9.0, refer to Software Announcement [216-153](#), dated April 19, 2016.

Program number

Program number	VRM	Program name
5655-MQ9	9.0.0	IBM MQ for z/OS

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^(R) ID and password are required (use IBM ID).

[BP Attachment for Announcement Letter 216-206](#)

Technical information

Specified operating environment

Hardware requirements

IBM MQ for z/OS, V9.0 runs on any IBM z Systems server that supports z/OS V2.1. It must have enough storage to meet the combined requirements of the programming prerequisites IBM MQ for z/OS, the access methods, and the application programs

Software requirements

The following products or equivalents at the specified **minimum levels**:

- Operating system: z/OS V2.01
- For C/C++ applications, XL C/C++ feature of z/OS, V2.01
- For PL/I applications, Enterprise PL/I for z/OS, V4.2
- For COBOL applications, Enterprise COBOL for z/OS, V4.2
- For Java applications using the WebSphere MQ classes for Java or JMS
 - IBM 31-bit SDK for z/OS, Java Technology Edition V7
 - IBM 64-bit SDK for z/OS, Java Technology Edition V7
- Transaction managers
 - IBM CICS Transaction Server for z/OS, V4.1, or higher
 - CICS Transaction Server for z/OS, V5.1, or higher
- Databases
 - IMS V12.1, or higher
 - IMS V13.1, or higher
 - IMS V14.1, or higher

- DB2^(R) 10 for z/OS, V10.1
- DB2 11 for z/OS, V11.1
- Virtualization - IBM PR/SM™
- Connectivity
 - TCP/IP: z/OS TCP/IP or any TCP product that supports the z/OS Unix Sockets API
 - VTAM^(R): Included with z/OS. Only TCP/IP is supported with the JMS Client and the WebSphere MQ Java Classes
- Other platform specifics, for shared queues
 - Coupling Facility (CF) Level 9
 - DB2 10 for z/OS, V10.1
 - Resource Recovery Services (RRS) activated
- For Secure Sockets Layer (SSL) Channels, range of CipherSpecs for SSL Channels and Optional random number generator
 - Cryptographic Services System SSL (FMID HCPT3D0)
 - Cryptographic Services Security Level 3 (FMID JCPT3D1)
 - Cryptographic Support for z/OS V2R1 (FMID HCR77A1)

WebSphere MQ Telemetry server does not run on this platform.

The Program Directory shipped with the product contains the latest level of information, includes APAR or PTF levels of supported products.

For additional information, go to the [IBM MQ System requirements](#) website.

Compatibility

IBM MQ for z/OS, V9.0 is upwardly compatible with programs written for

- MQSeries^(R) for MVS/ESA V1.2
- MQSeries for OS/390^(R) V2.1
- MQSeries for OS/390 V5.2
- WebSphere MQ for z/OS, V5.3.1
- WebSphere MQ for z/OS, V6.0
- WebSphere MQ for z/OS, V7.0
- WebSphere MQ for z/OS, V7.0.1
- WebSphere MQ for z/OS, V7.1
- IBM MQ for z/OS, V8.0

Regression testing is performed to ensure compatibility with IBM MQ platforms.

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

Limitations

For additional information, refer to [Terms and conditions](#) section of this announcement, or to the license information document that is available on the [IBM Software License Agreement website](#) website.

Planning information

Customer responsibilities

Deprecation of MD5 algorithm in IBM MQ Advanced Message Security

From Version 9.0, MD5 and SHA-1 signature algorithms and RC2 and DES encryption algorithms on IBM MQ Advanced Message Security policies are disabled in default configurations. It is not possible to define new security policies that use these algorithms.

Stabilization of IBM MQ classes for Java

IBM will make no further enhancements to the IBM MQ classes for Java and they are functionally stabilized at the level shipped in IBM MQ V8.0. Existing applications that use the IBM MQ classes for Java will continue to be fully supported, but this API is stabilized, so new features will not be added and requests for enhancements rejected. Fully supported means that defects will be fixed together with any changes necessitated by changes to IBM MQ System Requirements.

IBM MQ transport for SOAP

The IBM MQ transport for SOAP is being deprecated. This includes the following product features:

- The IBM MQ transport for SOAP Java Listener
- The IBM MQ transport for SOAP .NET 1 and 2 Listener
- The IBM MQ transport for SOAP Java Axis2 Client
- The IBM MQ transport for SOAP Java client (deprecation was announced in IBM MQ V8.0)
- The IBM MQ transport for SOAP .NET 1 and 2 clients (deprecation was announced in IBM MQ V8.0)
- The IBM MQ bridge for HTTP (deprecation was announced in IBM MQ V8.0)

Direct customer support

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel Enterprise Edition or SoftwareXcel Basic Edition. These fee services can enhance your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel Enterprise Edition or SoftwareXcel Basic Edition will help answer questions pertaining to usage, how-to, and suspected software defects for eligible products.

Installation and technical support is provided by IBM Global Services. For more information on services, call 888-426-4343.

Packaging

The following are supplied:

- IBM MQ for z/OS, V9.0 base product on 3590 tape cartridge

For IBM MQ for z/OS, V9.0 base product, one copy of the *IBM MQ for z/OS, V9.0 Licensed Program Specifications CD (GC34-7352)*,

Security, auditability, and control

IBM MQ uses the security and auditability features of the operating system software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

Ordering z/OS through the Internet

Shopz provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). Shopz is available in the US, Canada, and several countries in Europe. In countries where Shopz is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order through the traditional IBM ordering process. For more details and availability, go to the [Shopz](#) website.

New licensees

Orders for new licenses can be placed now. Registered customers can access IBMLink for ordering information and charges. Shipment will not occur before the availability date. Unless a later date is specified, orders entered before the planned availability date will be assigned a schedule date of one week following availability.

- Orders entered after the planned availability date will be assigned a schedule date for the week following order entry.

Shipment will begin on the planned availability date.

- Orders that ship after the planned availability date will receive IBM MQ for z/OS, V9.0.

New users of IBM MQ for z/OS, V9.0 should specify:

Type	Model
5655	MQ9

Parallel Sysplex License Charges (PSLC) basic license

To order a basic license, specify the program number and the quantity of MSUs.

If there is more than one program copy in a Parallel Sysplex^(R), the charge for all copies is associated to one license by specifying the applicable PSLC license options and the quantity represented by the sum of the Service Units in Millions (MSUs) in the Parallel Sysplex. For all other program copies, specify the System Usage Registration No-Charge (SYSUSGREG NC) Identifier on the licenses.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, PSLC (ABCD)

Advanced Workload License Charges (AWLC) basic license

To order a basic license, specify the program number and the quantity of MSUs.

If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable AWLC license options and the quantity represented by the sum of the Service Units in Millions (MSUs) in the Parallel Sysplex. For all other program copies, specify the Workload Registration No-Charge (WLREG NC) Identifier on the licenses.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, AWLC

Country Multiplex License Charges (CMLC) basic license

To order a basic license, specify the program number and quantity of MSUs.

If there is more than one program copy in a Country Multiplex, the charge for all copies is associated to one license if all the copies are licensed to one customer number within the multiplex. If there is more than one customer number, the charge for all copies is prorated to one license for each customer number within the multiplex.

For each license being charged, specify the applicable CMLC license options and the prorated quantity of the Service Units in Millions (MSUs) for each customer number within the multiplex. For all other program copies, specify the Workload Registration No-Charge (WLREG NC) Identifier on the licenses.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, CMLC

Advanced Entry Workload License Charges (AEWLC) basic license

To order a basic license, specify the program number and the quantity of MSUs.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, AEWLC

Variable Workload License Charges (VWLC) basic license

To order a basic license, specify the program number and the quantity of MSUs.

If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable Variable WLC license options and the quantity represented by the sum of the Service Units in Millions (MSUs) in the Parallel Sysplex. For all other program copies, specify the Workload Registration No-Charge (WLREG NC) Identifier on the licenses.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, Variable WLC

Entry Workload License Charges (EWLC) basic license

To order a basic license, specify the program number and the quantity of MSUs.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, Entry WLC

S/390 and z Systems Usage License Charges (ULC) basic license

To order a basic license, specify the program number and the quantity of usage MSUs.

Charges will be based upon the usage MSUs. Usage reported from 0.01 to 0.25 MSUs will be rounded up to 0.25 MSUs. Usage reported from 0.26 to 0.50 MSUs will

be rounded up to 0.50 MSUs. Usage reported from 0.51 to 1.0 MSUs will be rounded up to 1.0 MSU. Above 1.0 MSU, usage will be rounded to the nearest whole MSU. For example, 2.4 MSUs would round to 2.0 MSUs for pricing, and 2.5 MSUs would round to 3.0 MSUs for pricing.

If there is more than one program copy on a stand-alone machine or in a Parallel Sysplex, or more than one program version in either environment, the charge for all copies is associated to one license of the highest program version by specifying the applicable ULC license options and quantity represented by the sum of the Service Units in Millions (MSUs) in the environment. For all other program copies, specify the System Usage Registration No-Charge (SYSUSGREG NC) Identifier on the licenses.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/ Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, ULC

Growth Opportunity License Charges (GOLC) basic license

To order a basic license, specify the program number and the machine model.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/ Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, GOLC

z Systems Entry License Charges (zELC) basic license

To order zELC software, specify the program number and machine model.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/ Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, zELC

Select Application License Charge (SALC) basic license

To order a basic license, specify the program number and the quantity of usage MSUs.

Charges will be based upon the usage MSUs. Usage reported from 0.01 to 1.0 MSUs will be rounded up to 1.0 MSU. Above 1.0 MSU, usage will be rounded to the nearest whole MSU. For example, 2.4 MSUs would round to 2.0 MSUs for pricing, and 2.5 MSUs would round to 3.0 MSUs for pricing.

If there is more than one program copy on a stand-alone machine or in a Parallel Sysplex, or more than one program version in either environment, the charge for all copies is associated to one license of the highest program version by specifying the applicable SALC license options and the quantity represented by the sum of the Service Units in Millions (MSUs) in the environment. For all other program copies, specify the System Usage Registration No-Charge (SYSUSGREG NC) Identifier on the licenses.

Program name: IBM MQ for z/OS, V9.0

Program PID: 5655-MQ9

Entitlement identifier	Description	License option/ Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, SALC

Basic machine-readable material

Orderable Supply ID	Language	Distribution medium	Description
S017ZPW	US English	IBM 3590 Tape Cartridge	IBM MQ for z/OS, V9.0

Customization options

Not applicable.

Unlicensed documentation

IBM MQ, V9.0 documentation is published in [IBM Knowledge Center](#), which can be viewed from a web browser with Internet access.

On June 17, 2016, the online version of the IBM MQ V9.0 product documentation will be available.

The following softcopy publications are available in .pdf format to download from the [Publications Center](#).

Title	Order number
IBM MQ for z/OS, V9.0 Program Directory	GI13-3386
IBM MQ for z/OS, V9.0 Licensed Program	GC34-7352

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

To order a previous edition of a publication, use the correct suffix level for the version desired.

Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.

Customized Offerings

Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where Shopz product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, go to the Help section on the [Shopz](#) website.

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

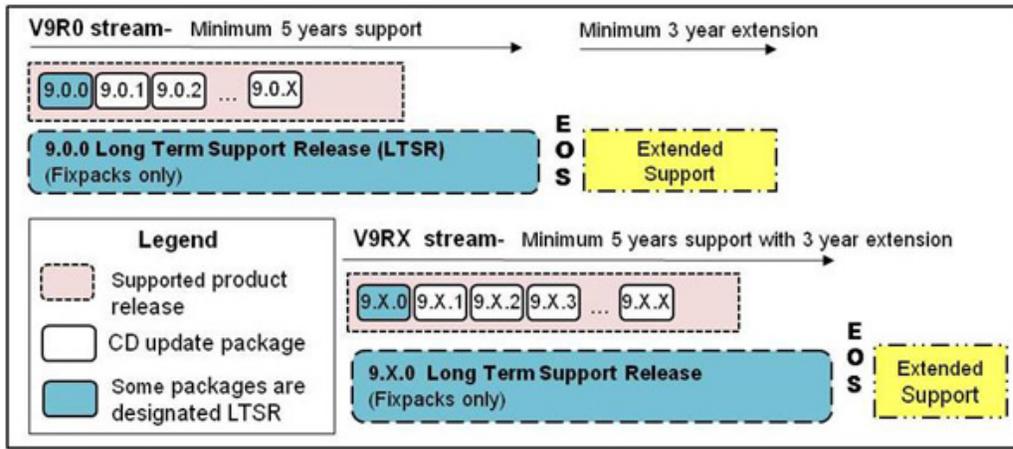
Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

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

For additional information on the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 31, 2012.

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

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.



Terms and conditions

Support lifecycle policy

With the IBM MQ V9.0 family of products, IBM MQ introduces a Continuous Delivery (CD) support model. Following the initial release of Version 9.0, new function and enhancements will be made available by incremental updates within the same version and release.

The new support model is implemented as follows:

- The CD support model allows IBM MQ products to make new function available more frequently. The model also recognizes that frequent releases may not be suitable for all client application environments. Therefore, some products may offer a Long Term Support Release (LTSR) option.
- An LTSR can be supported for a longer period time, thereby assisting clients where frequent functional updates may not be practical and a longer term deployment is desirable.
- Clients should stay up to date with the installation of updates and LTSR packages to obtain the latest maintenance and new function. Product defect fixes and security updates are only available for the two, most current CD updates and all active LTSRs. If required, individual product fixes can be made available between update packages for resolution of problems.
- Both new function and service will be made available in a single, easy-to-install package as modification level updates.
- Update packages are delivered on the latest product release stream when the new release becomes available.
- New functional updates are not available to previously released update packages and LTSRs.
- Support is available for all IBM components of a product until the product is withdrawn from support.
- Support extensions are available, for a minimum period of one year for an additional fee, following effective support discontinuance date of the product.

For support of IBM MQ V9.0

- LTSR is a recommended product level for which support, including defect and security updates, will be provided over a specified period of time. LTSR is

intended for clients that may need a longer term deployment and maximum stability.

- New functionality, security updates, and defect fixes will be made available through CD releases. Additional support will be made available, as necessary, through iFixes on only the two most recent CD and LTSR. IBM expects that clients will upgrade to either the latest CDR or LTSR in order to receive on-going security updates and defect fixes.
- IBM MQ for z/OS, V9.0 is a LTSR and provides predictable support through iFixes and fixpacks for a minimum period of five years from the general availability date. A minimum, three-year extension of support is available for an additional fee.

Agreement

IBM Customer Agreement

Variable charges apply

No

Indexed monthly license charge (IMLC) applies

No

Location license applies

Yes

Educational allowance available

Yes, 15% education allowance applies to qualified education institution customers.

Volume orders

Not applicable.

Single version charging

To elect single version charging, the customer must notify and identify to IBM the prior program and replacement program and the designated machine the programs are operating on.

Products eligible for single version charging

Replaced program		Replacement program	
Program number	Program name	Program number	Program name
5695-137	MQSeries MQM MVS/ESA V1	5655-MQ9	IBM MQ for z/OS, V9.0
5655-A95	MQSeries OS/390 V2	5655-MQ9	IBM MQ for z/OS, V9.0
5655-F10	MQSeries OS/390 V5	5655-MQ9	IBM MQ for z/OS, V9.0
5697-MQZ	WebSphere MQ Ext Sec Ed V5	5655-MQ9	IBM MQ for z/OS, V9.0
5655-L82	WebSphere MQ for z/OS, V6.0	5655-MQ9	IBM MQ for z/OS, V9.0
5697-NQZ	WebSphere MQ Ext Sec Ed V6	5655-MQ9	IBM MQ for z/OS, V9.0

Replaced program		Replacement program	
Program number	Program name	Program number	Program name
5655-R36	IBM MQ for z/OS, V7.0	5655-MQ9	IBM MQ for z/OS, V9.0
5655-W97	IBM MQ for z/OS, V8.0	5655-MQ9	IBM MQ for z/OS, V9.0

Warranty applies

Yes

Statement of good security practices

IT system security involves protecting systems and information through 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 lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support, all at no additional cost to you.

Now integrated into the base operating system of AIX^(R) V5.3, AIX V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, go to the [IBM Electronic Support](#) website.

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent™ tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean intervention is not required to report errors.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool is designed to securely transmit either through the Internet (HTTPS or VPN) or modem to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system.

For additional information, go to the <http://www.ibm.com/support/esa> website.

More accurate reporting: Because system information and error logs are automatically uploaded to the IBM Support Center in conjunction with the service request, you are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, you can view system and support information in the *My Systems and Premium Search* sections of the [IBM Electronic Support](#) page.

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with your IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium search and the Electronic Service Agent information that has been collected from your system, you are able to see search results that apply specifically to your systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or go to the [IBM Electronic Support](#) website.

Prices

Entitlement identifier	Description	License option/ Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, GOLC
		Basic MLC, zELC
		Basic MLC, PSLC AD
		Basic MLC, AWLC
		Basic MLC, CMLC
		Basic MLC, AEWLC
		Basic MLC, VWLC

Sub-capacity charges for WLC products

Sub-capacity charges for WLC products are based on product LPAR utilization capacity. Product LPAR utilization capacity for a WLC product is the highest number of MSUs utilized by the combined LPARs in which a WLC product runs concurrently during a reporting period. The number of MSUs is based on the highest observed rolling 4-hour average utilization used by the combination of the relevant LPARs during the reporting period.

Sub-capacity charges terms and conditions

z Systems™ software charges at less than full machine capacity for eligible WLC products apply when z/OS is running in z/Architecture® (64-bit) mode on an IBM z Systems server, no other MVS-based operating system is licensed to that server, and the required information is provided by the customer in accordance with the applicable terms.

Sub-capacity charges for a WLC product is based on the utilization of the LPARs where/when the product executes. To obtain charges at less than full machine capacity for WLC products, the customer is required to:

- Sign and abide by the terms of the contract for the applicable price metric. Contract numbers are available in the [z Systems Software Pricing Reference Guide](#).
- Obtain the latest version of the Sub-Capacity Reporting Tool.
- Install any WLC product and IBM z Systems server Licensed Internal Code (LIC) service required for sub-capacity charging. Required service will be listed on the [IBM z Systems Software Pricing](#) website.
- Collect SMF data as required by the Sub-Capacity Reporting Tool. Retain the collected SMF data for a period of not less than six months.
- Use the IBM provided Sub-Capacity Reporting Tool to process the collected SMF data. The Sub-Capacity Report produced by the tool is used to determine required license capacity for the WLC products. Required license capacity is determined based on the largest MSU value of a WLC product running concurrently in all LPARs during the reporting period. IBM reserves the right to request the system data that supports these product-defined capacity values for a period of up to six months after the data was collected.
- Provide an initial Sub-Capacity Report to begin to receive the benefits of less than full machine capacity charges. Sub-capacity charging will follow submission of a Sub-Capacity Report. There will be no retroactive application of sub-capacity charges.
- Submit Sub-Capacity Reports monthly.
- Submit Sub-Capacity Reports for all WLC products with complete data for the entire reporting period to the email address and by the date specified on the [IBM z Systems Software Pricing](#) website.

Sub-Capacity Reports that reflect a changed product defined capacity will be considered to be orders placed by the customer without further action on the customer's part, and IBM is authorized to make any resulting billing increase or decrease. To place an order for a new license or to discontinue licenses, move licenses between machines, report a hardware model upgrade, or enable or disable product features, the customer must contact IBM or their IBM Business Partner.

- Configure the machine to send weekly Transmit System Availability Data (TSAD) to IBM via the IBM z Systems server Remote Support Facility (RSF). If the machine cannot connect via the RSF, provide this TSAD through an alternate means documented in the *z/OS Planning for Sub-Capacity Pricing* publication on the [IBM z Systems Software Pricing](#) website.

Entitlement identifier	Description	License option/ Pricing metric
S017ZPX	IBM MQ for z/OS, V9.0	Basic MLC, EWLC
		Basic MLC, ULC
		Basic MLC, SALC

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