



# IBM WebSphere MQ for z/OS V7.1 is enhanced with lower cost of ownership, improved time to value, and more configurable security

## Table of contents

<a href="#">1 Overview</a>	<a href="#">6 Technical information</a>
<a href="#">2 Key prerequisites</a>	<a href="#">9 Ordering information</a>
<a href="#">2 Planned availability date</a>	<a href="#">13 Terms and conditions</a>
<a href="#">2 Description</a>	<a href="#">14 Prices</a>
<a href="#">4 Product positioning</a>	<a href="#">14 Order now</a>
<a href="#">6 Program number</a>	

## At a glance

WebSphere® MQ for z/OS® V7.1 further extends Universal Messaging from IBM® for z/OS on IBM System z®. Enhancements include:

- Shared Message Data Sets (SMDS) provide offloaded Sysplex shared messages with improved performance and control
- Extended integration with IMS™ for transaction expiration and resource monitoring
- Further integration with CICS® for 64 bit support
- Ability to tolerate Coupling Facility failures
- Reduced complexity for enabling and checking system security

## Overview

WebSphere MQ for z/OS delivers Universal Messaging for z/OS on System z servers with simple, rapid, reliable, and secure messaging between applications, and extending to web services and files. It also delivers Java™ Message Service (JMS), and publish and subscribe capabilities.

WebSphere MQ for z/OS is the market-leading family of message-oriented middleware products. Product companies rely on it as a proven messaging backbone for almost 10,000 organizations of different sizes, spanning many industries around the world.

In June 2008, WebSphere MQ for z/OS V7.0 delivered significant enhancements to service-oriented architecture (SOA) messaging, including JMS ease-of-use and performance, new publish-subscribe support, new message queue interface (MQI) capabilities, and HTTP bridging for Web 2.0 applications.

In August 2009, Version 7.0.1 was further enhanced with more features that can help relieve resource constraints, reduce total cost of ownership, and enable better use of existing investments.

WebSphere MQ for z/OS V7.1 now offers additional features to lower the cost of ownership, improve the integration with other critical solutions on z/OS and other operating environments. In addition, this release delivers key features to exploit the System z platform.

To obtain the enhancements in this modification:

- If you are currently using WebSphere MQ for z/OS V6.0, you can migrate directly to WebSphere MQ for z/OS V7.1 without migrating to V7.0.1 first.
- If you are currently using WebSphere MQ for z/OS V7.0.0, you can migrate directly to WebSphere MQ for z/OS V7.1, without migrating to WebSphere MQ for z/OS V7.0.1 first.
- If you are currently using WebSphere MQ for z/OS V7.0.1, you can migrate directly to WebSphere MQ for z/OS V7.1.
- If you order WebSphere MQ for z/OS V7.1, you will receive V7.1 product media following general availability.

WebSphere MQ for z/OS V7.1 queue managers and clients interoperate with queue managers and clients from any previous level of WebSphere MQ and MQSeries® products. You may need to upgrade previous queue managers, clients, or both to take advantage of new features in Version 7.1.

For ordering, contact your IBM representative or an IBM Business Partner. For more information, contact the Americas Call Centers at 800-IBM-CALL (426-2255). Reference: LE001

---

## Key prerequisites

---

Refer to the [Hardware requirements](#) and [Software requirements](#) sections.

For a comprehensive list of prerequisites, visit

<http://www-306.ibm.com/software/integration/wmq/>

---

## Planned availability date

---

November 25, 2011

---

## Description

---

Version 7.1 further enhances Version 7.0 and Version 7.0.1 with new features that can help reduce total cost of ownership, and enable better use of existing investments in software and hardware.

### ***Shared Message Data Sets (SMDS)***

WebSphere MQ for z/OS V7.1 extends the availability and opportunity for removing affinities between applications and queue managers to new classes of MQ applications. SMDS are an alternative to DB2® BLOB tables for storing messages on shared queues.

Messages payload is offloaded to SMDS at message queue PUT (MQPUT) time and retrieved as required by MQGET.

SMDS offloaded messages can be accessed with faster response time and reduced cpu than those offloaded to DB2 BLOBs. Additionally, phased offload rules allow smaller messages to be offloaded to SMDS as Coupling Facility utilization increases, which reduces the required size of Coupling Facility storage to support a given volume of messages. The net effect is a reduction in costs for supporting shared queue messaging, allowing shared queues to be used for new applications where previously the costs were prohibitive.

### ***Further integration with IMS***

WebSphere MQ for z/OS V7.1 integrates more tightly with IMS Open Transaction Manager Access (OTMA) to provide higher availability to applications. IMS OTMA can detect a message flood situation and indicate this state to WebSphere MQ for z/OS IMS bridge processes which will throttle the rate at which messages are passed to IMS.

One benefit of such throttling is that the queueing of work is performed in MQ rather than IMS, reducing the potential for exhaustion of vital ECSA storage. If the MQ bridge queue is defined as a shared queue, then a second benefit of the throttling is that an IMS bridge process from the same shared queue in a different queue manager could process the queued messages via a different IMS.

Further support for IMS transaction expiration is introduced in this release. Remaining MQ expiry time in MQ messages on IMS bridge queues is passed to IMS OTMA. If an IMS dependent region retrieves a message which originates from an MQ bridge queue and expires the message, then depending on MQ report options, an MQ expiry report can be generated. This leads to application simplification because any expiration, whether in MQ or IMS can be handled by the application in the same manner.

### ***Support for CICS***

WebSphere MQ for z/OS V7.1 extends the availability benefits of queue sharing group units of recovery introduced in Version 7 for extended transactional (XA) clients to CICS applications. CICS Transaction Server (CICS TS) V4.2 introduces a new GROUPRESYNC option to the RESYNCMEMBER attribute of an MQCONN definition which provides enhanced functionality in a queue sharing group containing MQ for z/OS V7.1 queue managers.

When CICS is configured with this MQCONN attribute, indoubt units of recovery between CICS and MQ can be resolved when CICS reconnects to any eligible MQ in the queue sharing group. This removes an affinity between CICS regions and queue managers simplifying system configuration and enhancing availability.

### ***Toleration for Coupling Facility connectivity I=Loss***

WebSphere MQ for z/OS V7.1 enhances queue sharing group availability by tolerating a Coupling Facility connection failure. z/OS system managed rebuild facilities are exploited to automatically rebuild a CF structure after such a failure, in a Coupling Facility with better connectivity in the Sysplex.

Additionally, existing Coupling Facility recovery facilities are enhanced with an automatic recovery capability. In the unlikely event of Coupling Facility outage, the queue manager is able to continue processing private queues, and shared queue application down time is limited to the time required to rebuild or automatically recover MQ CF structures.

### ***Reduced complexity for enabling and checking system security***

The importance of the effectiveness of the security applied to the connections between applications is matched by the need to ensure this security can be efficiently applied and maintained. Previous versions of WebSphere MQ enabled customers to write their own security exits to manage the authentication of channels. This allowed for effective, if complex security control of channel access, but would obviously require customers to write and maintain these exits.

In this release these security exits are now replaced by IBM provided code, enabling wide-ranging control of multiple security aspects of access to channels, including:

- Blocking IP addresses
- Mapping channel access against credentials
- Rules-based SSL peer mapping

These security controls are also enabled for use with a new security wizard, which runs on Linux™ and Windows™ but provides the control for all platforms of WebSphere MQ V7.1.

As a further security enhancement, SSL providers can now use algorithms compliant with FIPS 140-2 certification, helping to meet stricter regulations for encryption.

---

### **Accessibility by people with disabilities**

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

---

### **Section 508 of the US Rehabilitation Act**

WebSphere MQ for z/OS V7.1 is capable as of November 25, 2011, 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**

The WebSphere MQ family offers the universal messaging backbone for connectivity across all environments, including applications, services and SOA infrastructures. It connects new and existing applications, as well as web services, with reliable messaging and acts as a first step to SOA and event-driven architectures providing a transport layer to underpin an enterprise service bus (ESB). It delivers assured, reliable messaging, as well other qualities of service, while offering choice in the class of delivery.

WebSphere MQ for z/OS supports industry-standard, JMS messaging. It enables simple, RESTful access from Web 2.0 to core back-end applications and integrates z/OS applications with virtually any other commercial IT system across more than 80 platform configurations. It also integrates Java Enterprise Edition (JEE) applications, .NET applications, CICS, IMS, DB2, and packaged applications.

- WebSphere MQ for z/OS exploits the capabilities of the System z platform to deliver a messaging powerhouse.
- WebSphere MQ extends the reliable, proven messaging backbone to virtually any commercial IT system, spanning more than 80 platform configurations.
- WebSphere MQ for HP OpenVMS, WebSphere MQ for HP NonStop Server, and MQSeries for z/VSE® all extend the reach of WebSphere MQ to these specific computing platforms.
- WebSphere MQ File Transfer Edition adds file-specific features to the proven WebSphere MQ transport. It delivers a managed file transfer solution that enables the movement of files between IT systems with reliability and without the need for programming.
- WebSphere MQ Advanced Message Security expands the industry-standard security offered by WebSphere MQ for z/OS with end-to-end, data protection for customers' applications. It enables enterprise-wide, remote management of security policies on their MQ network and can be deployed to existing production environments without changes to existing WebSphere MQ applications.
- WebSphere MQ Low Latency Messaging (on Linux, Microsoft™ Windows, and Solaris platforms) extends the WebSphere MQ product family with low-latency, high-throughput delivery. It is optimized for the high-volume, low-latency requirements typical of financial markets firms and other industries where speed of data delivery is paramount.

The WebSphere portfolio provides additional connectivity capabilities that can build on, and take advantage of, the SOA Messaging provided by WebSphere MQ:

- WebSphere Service Registry and Repository provides an SOA Repository that can help publish, find, enrich, manage, and govern services and policies in your SOA. Using the MQ Service Definition, WebSphere Service Registry and Repository can now be used to govern the lifecycle of MQ applications and messaging services in the same way as for other SOA services.
- WebSphere Message Broker is an ESB built for universal connectivity and transformation in heterogeneous IT environments. It builds on the WebSphere MQ messaging layers with ESB capabilities that add transformation, intelligent routing, and information flow modeling.
- WebSphere ESB leverages web services standards and builds on the embedded messaging in WebSphere Application Server. WebSphere MQ extends the reach of this ESB to non-JEE environments and a broader range of platforms.
- WebSphere DataPower® Integration Appliance XI50 transforms between disparate message formats and offers an ESB in an appliance form factor. It is a 1U (1.75-inch thin), rack-mountable network device capable of transforming between disparate message formats, including binary, legacy, and XML, and providing message routing and security. XI50 delivers client connectivity into the WebSphere MQ backbone.
- WebSphere DataPower B2B Appliance XB60 provides purpose-built B2B hardware that supports AS2 and AS3 messaging and trading partner profile management in a high-performance demilitarized zone (DMZ)-ready appliance.
- WebSphere Adapters deliver generic technology and business application adapters with wizards that quickly and easily service enable legacy applications, ERP, HR, CRM, and supply chain systems.

In addition, the IBM Tivoli® portfolio offers systems management for large-scale WebSphere MQ solutions. IBM Tivoli OMEGAMON® XE for Messaging can help improve the availability and performance of WebSphere MQ solutions. It can identify common problems and automate corrective actions using predefined industry best-practice situations, while monitoring key WebSphere MQ metrics.

IBM Tivoli OMEGAMON XE for Messaging can help improve management of Service Level Agreements (SLAs) by monitoring availability and capacity using real-time and historical data analysis. Out-of-the box capabilities, such as auto-discovery and monitoring of complex WebSphere MQ environments, can improve IT staff productivity and reduce administration costs.

IBM Workload Deployer is a hardware appliance providing access to IBM middleware virtual images and patterns to easily, quickly and repeatedly create application environments that can be securely deployed and managed in a private cloud. As well as other IBM offerings, IBM Workload Deployer supports deployment of WebSphere MQ Hypervisor.

In addition, SupportPac product extensions offer additional function available as a download from the Internet. Visit

<http://www.ibm.com/webspheremq>

A messaging backbone based on WebSphere MQ can help organizations:

- Quickly and economically connect IT systems
- Improve the reliability and accuracy of business data being exchanged
- Become more agile so that IT can be flexible enough to meet changing business demands
- Stay flexible so that IT and organizational changes can be absorbed
- Be better prepared for regulatory compliance and industry initiatives
- Connect the new with the now, leveraging Web 2.0 and web services while connecting these with the core back-end system messaging

### ***Universal messaging backbone***

In an SOA, an ESB delivers an integration layer that mediates, transforms, and enriches data as it is transporting between service components. The transport layer that underpins an ESB layer is a messaging backbone that enables it to move

data between those service assets. As a key member of the WebSphere software portfolio, WebSphere MQ delivers a universal messaging backbone that can help you take the first step to SOA.

WebSphere MQ for z/OS enables SOAP interactions to flow over its messaging backbone between web service requesters and providers. Legacy and batch applications that are web services-enabled can also benefit from using WebSphere MQ for z/OS in its asynchronous mode as a buffering mechanism to regulate the flow of requests made to these systems.

WebSphere MQ for z/OS is the ideal transport for adding reliability and traceability to service interactions, delivering a scalable, reliable, resilient backbone that enables a business-critical SOA.

---

## Hardware and software support services

---

### SmoothStart/installation services

---

IBM SmoothStart Services and Installation Services are not provided.

---

## Program number

---

Program number	VRM	Program name
5655-R36	7.1	webSphere 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® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=211-394>

---

## Technical information

---

### Specified operating environment

---

#### Hardware requirements

WebSphere MQ for z/OS V7.1 runs on any IBM System z server that supports z/OS V1.11 with enough storage to meet the combined requirements of the programming prerequisites, WebSphere 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 V1.11
  - z/OS V1.11
- For C/C++ applications -- XL C/C++ feature of z/OS V1.11
- For PL/I applications -- Enterprise PL/I for z/OS V3.7
- For COBOL applications -- Enterprise COBOL for z/OS V3.4
- For Java applications using the WebSphere MQ classes for Java or JMS 31-bit:
  - IBM Java SDK 6.0
  - IBM Java SDK 5.0

- Transaction managers
  - IBM CICS
    - CICS TS for z/OS V3.1
    - CICS ST for z/OS V4.1
- Databases
  - IMS V11
  - IMS V10
  - DB2 9 for z/OS, V9.1
  - DB2 10 for z/OS, V10.1
- Application servers
  - WebSphere Application Server for z/OS, V8.0
  - WebSphere Application Server for z/OS, V7.0
  - WebSphere Application Server for z/OS, V6.1
- Supported application servers for the WebSphere MQ Bridge for HTTP
  - WebSphere Application Server for z/OS, V8.0
  - WebSphere Application Server for z/OS, V7.0
- Virtualization -- IBM PR/SM™
- Connectivity
  - TCP/IP: z/OS TCP/IP or any TCP product that supports the z/OS Unix Sockets API
  - VTAM®: Included with z/OS<sup>1</sup>
- Other platform specifics
  - For shared queues
- Coupling Facility (CF) Level 9
- DB2 9 for z/OS, V9.1
- Resource Recovery Services (RRS) activated
  - For Secure Sockets Layer (SSL): z/OS Cryptographic Services Security Level 3 (FMID JCPT381)

<sup>1</sup> Only TCP/IP is supported with the JMS Client and the WebSphere MQ Java Classes.

WebSphere MQ Telemetry server does not run on this platform.

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

For information on software requirements, visit

<http://www-306.ibm.com/software/integration/wmq/>

### **Compatibility**

WebSphere MQ for z/OS V7.1 is upwardly compatible with programs written for MQSeries for MVS/ESA V1.2, MQSeries for OS/390® 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, and WebSphere MQ for z/OS V7.0.1. Regression testing is performed to ensure compatibility.

### **WebSphere MQ platforms**

WebSphere MQ supports more than 80 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 the section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

## **Planning information**

---

### **Deprecation warnings**

In future releases of WebSphere MQ, it is not expected that further enhancements to the programming interfaces to WebSphere MQ will be applied to the C++ API.

SupportPac MA0F -- WebSphere MQ Application Messaging Interface (AMI) -- is planned for withdrawal.

In a future release of WebSphere MQ, it is expected that the following features of the product will be removed:

- SNA client connection channels
- Cipher specs for data encryption which are no longer considered secure
- Support for the Real Time Transport within JMS and XMS APIs for interaction with WebSphere Event Broker and WebSphere Message Broker at levels prior to V7.0
- Certain methods in the WebSphere MQ Java interfaces that are currently marked as deprecated
- Properties of the Java interface configuration that are currently unused, such as those related to Inherited Transactions
- Connection pooling for the JMS interface, leaving application servers to manage connection pooling on behalf of resource managers such as WebSphere MQ

### **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. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

### **Packaging**

The following are supplied:

- WebSphere MQ for z/OS V7.1 base product on 3590 tape cartridge
- Optionally, if ordered, the Client Attachment feature on 3590 tape cartridge
- One copy of the WebSphere MQ Clients CD-ROMs LK4T-2672 if the Client Attachment Feature is ordered.
- For WebSphere MQ for z/OS V7.1 base product, one copy of each of the following:

Title	Order number
WebSphere MQ for z/OS License Program Specifications	GC34-7246
WebSphere MQ Documentation for Windows CD-ROM	SK4T-2670
WebSphere MQ Documentation for Linux CD-ROM	SK4T-2671



The WebSphere MQ Documentation for Windows CD-ROM (SK4T-2670) and the WebSphere MQ Documentation for Linux CD-ROM (SK4T-2671) are also available as separately orderable items.

The following publication is supplied automatically with the basic machine-readable material:

Publications are only provided in PDF softcopy format and are available for download, free of charge, from the WebSphere MQ Information Center

<http://publib.boulder.ibm.com/infocenter/wmqv7/v7r1/index.jsp>

Title	Order number
WebSphere MQ for z/OS v7.1 Program Directory	GI13-0572

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

If hardcopy is required, you may print the PDF document.

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. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

### **Security, auditability, and control**

---

WebSphere 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**

ShopzSeries 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). ShopzSeries is available in the US, Canada, and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

### **Current licensees**

---

Current licensees of WebSphere MQ for z/OS will receive this update from IBM Software Delivery and Fulfillment (SDF) automatically. This shipment of release 7.1, is scheduled to be completed by December 9, 2011 -- two weeks after planned availability.

### **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 with a scheduled date before the planned availability date will be shipped WebSphere MQ V7.0.1 for z/OS.
- Orders entered with a scheduled ship date after planned availability will be shipped WebSphere MQ V7.1 for z/OS. Unless a later date is specified, an order is scheduled for the week following order entry.

New users of WebSphere MQ V7.1 for z/OS should specify: Type: 5655 Model: R36

### **Parallel Sysplex license charge (PSLC) basic license**

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

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 PSLC license options and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the System Usage Registration No-Charge (SYSUSGREG NC) Identifier on the licenses.

Entitlement identifier	Description	License option/Pricing metric
S014V9Z	WebSphere MQ for z/OS V7.1 base product	Basic MLC, PSLC below 3 MSU Basic MLC, PSLC AD SYSUSGREG NC, PSLC AD
S014VB0	WebSphere MQ for z/OS V7.1 Client Attachment Feature	Basic MLC, PSLC below 3 MSU Basic MLC, PSLC AD SYSUSGREG NC, PSLC AD

### **Workload License Charge (WLC) Basic License**

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 WLC license options and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the Workload Registration Variable WLC Identifier on the licenses.

Entitlement identifier	Description	License option/Pricing metric
S014V9Z	WebSphere MQ for z/OS V7.1 base product	Basic MLC, Variable WLC Workload Registration, Variable WLC
S014VB0	WebSphere MQ for z/OS V7.1 Client Attachment Feature	Basic MLC, Variable WLC Workload Registration, Variable WLC

### **Entry Workload License Charge (EWLC) Basic License**

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

Entitlement identifier	Description	License option/Pricing metric
S014V9Z	WebSphere MQ for z/OS V7.1 base product	Basic MLC, Entry WLC
S014VB0	WebSphere MQ for z/OS V7.1 Client Attachment Feature	Basic MLC, Entry WLC

**S/390® and System z Usage License Charge, basic license:** Specify the applicable S/390 and System z Usage License Charge option. Charges will be based upon the Peak MSUs. Usage reported between thresholds of features 1, 2, or 3, will

be rounded up to the next MSU level. 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. The customer pricing will be determined by selecting either:

Entitlement identifier	Description	License option/Pricing metric
S014V9Z	WebSphere MQ for z/OS V7.1 base product	0 to 0.25 MSU Base
		0.26 to 0.5 MSU Base
		0.51 to 1.0 MSU Base
		Level A Chg/MSU (2 to 11 MSUs)
		Level B Chg/MSU (12 to 44 MSUs)
S014VB0	WebSphere MQ for z/OS V7.1 Client Attachment Feature	0 to 0.25 MSU Base
		0.26 to 0.5 MSU Base
		0.51 to 1.0 MSU Base
		Level A Chg/MSU (2 to 11 MSUs)
		Level B Chg/MSU (12 to 44 MSUs)
		Level C Chg/MSU (45 to 78 MSUs)
		Level D Chg/MSU (Above 78 MSUs)
		Level D Chg/MSU (Above 78 MSUs), per 50 MSUs

### ***Growth opportunity license charge (GOLC)***

To order a basic license, specify the program number and the correct level.

Specify the GOLC monthly license option.

Entitlement identifier	Description	License option/Pricing metric
S014V9Z	WebSphere MQ for z/OS V7.1 base product	Basic MLC, GOLC
S014VB0	WebSphere MQ for z/OS V7.1 Client Attachment Feature	Basic MLC, GOLC

### ***System z entry license charge (zELC)***

To order zELC software, specify the program number and z800 model.

Specify the zELC monthly license option.

Entitlement identifier	Description	License option/Pricing metric
S014V9Z	WebSphere MQ for z/OS V7.1 base product	Basic MLC, zELC
S014VB0	WebSphere MQ for z/OS V7.1 Client Attachment Feature	Basic MLC, zELC

### ***Basic machine-readable material***

Orderable

Supply ID:	Language	Distribution medium	Description
S0166B9	US English	3590 Tape Cartridge	WebSphere MQ Base for z/OS
S0166B8	US English	3590 Tape Cartridge	WebSphere MQ Client Attachment

### **Selected Application License Charge (SALC) license**

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

Entitlement identifier	Description	License option / pricing metric
S014V9Z	webSphere MQ for z/OS V7.1 base product	Basic MLC, SALC SYSUSGREG NC, SALC  Level 1 (1 to 11 MSUs) Level 2 (12 to 44 MSUs) Level 3 (45 to 78 MSUs) Level 4 (79+ MSUs)
S014VB0	webSphere MQ for z/OS V7.1 Client Attachment Feature	Basic MLC, SALC SYSUSGREG NC, SALC  Level 1 (1 to 11 MSUs) Level 2 (12 to 44 MSUs) Level 3 (45 to 78 MSUs) Level 4 (79+ MSUs)

### **Customization options**

Select the appropriate feature numbers to customize your order to specify the delivery options desired. These features can be specified on the initial or MES orders.

#### *Example*

If publications are not desired for the initial order, specify feature number 3470 to ship media only. For future updates, specify feature number 3480 to ship media updates only. If, in the future, publication updates are required, order an MES to remove feature number 3480; then, the publications will ship with the next release of the program.

Expedite shipments will be processed to receive 72-hour delivery from the time IBM Software Delivery and Fulfillment (SDF) receives the order. SDF will then ship the order via overnight air transportation.

### **Displayable Softcopy Publications**

WebSphere MQ manuals are offered in displayable softcopy form on CD-ROM. All unlicensed manuals are included. The displayable manuals are available as no-charge features.

Orderable supply ID	Description	Distribution Medium
S014T9R	webSphere MQ Documentation (Linux x86 platform)	CD-ROM
S014T18	webSphere MQ Documentation (windows platform)	CD-ROM

Publications are only provided in PDF softcopy format and are available for download, free of charge, from the WebSphere MQ Information Center.

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

If hardcopy is required, you may print the PDF document.

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. Payment options for orders are via credit card (in

the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

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 via CBPDO, ServerPac, and SystemPac®.

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries 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, refer to the ShopzSeries help information at

<http://www.software.ibm.com/ShopzSeries>

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 for CBPDO, ServerPac, SystemPac include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. 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
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

---

### **Terms and conditions**

---

The terms for WebSphere MQ V7.1 for z/OS, as previously announced in Software Announcement [208-067](#), dated April 1, 2008, licensed under the IBM Customer Agreement are unaffected by this announcement.

#### ***IBM Operational Support Services - SupportLine***

Yes

---

### **IBM Electronic Services**

---

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support.

The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

---

## Prices

---

For additional information and current prices, contact your local IBM representative.

For additional product information, refer to Software Announcement [208-067](#), dated April 1, 2008.

## IBM Global Financing

---

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

<http://www.ibm.com/financing>

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice. For more financing information, visit

<http://www.ibm.com/financing>

---

## Order now

---

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)  
Fax: 800-2IBM-FAX (242-6329)  
Internet: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
Mail: IBM Teleweb Customer Support  
ibm.com® Sales Execution Center, Americas North  
3500 Steeles Ave. East, Tower 3/4  
Markham, Ontario  
Canada  
L3R 2Z1

Reference: LE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

**Note:** Shipments will begin after the planned availability date.

**Trademarks**

IMS, PR/SM and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

WebSphere, z/OS, IBM, System z, CICS, MQSeries, DB2, z/VSE, DataPower, Tivoli, OMEGAMON, PartnerWorld, VTAM, OS/390, Parallel Sysplex, S/390, SystemPac and ibm.com are registered trademarks of IBM Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Windows and Microsoft are trademarks of Microsoft Corporation in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

**Terms of use**

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at:

<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>