



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

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At a glance

WebSphere® MQ V7.1 provides additional enhancements to IBM® Universal Messaging with new and improved features so customers can achieve a faster time to value and lower the cost of building, deploying, while managing messaging infrastructures.

Enhancements include:

- Multi-version and re-locatable installation for easier install, testing, and migration
- Support for virtualized environments
- Scalability and message throughput enhancements
- Reduced complexity for enabling and checking system security
- Extensions to support for .NET APIs
- Telemetry function for lightweight connectivity to mobile and other devices now included in the package
- Distribute across multiple end-points with integrated Multicast function
- Upgrade from trial-to-production deployment

(Corrections)Overview

WebSphere MQ V7.1 delivers Universal Messaging providing simple, rapid, reliable, and secure transport of messages and data offering flexible connectivity for applications, web services, and other programming environments. It also delivers market-leading Java™ Message Service (JMS) as well as publish and subscribe messaging.

WebSphere MQ is the market-leading, message-oriented middleware product that delivers a reliable, proven universal messaging backbone for almost 10,000 organizations of different sizes, spanning many industries around the world.

This new release builds on the added capabilities and new functions that were delivered in WebSphere MQ V7.0.1 and WebSphere MQ V7.0, which were announced in August 2009 and April 2008 respectively.

You can obtain the new enhanced functions offered by this new release in the following ways:

- If you are currently using WebSphere MQ V6.0, migrate directly to WebSphere MQ V7.1 without migrating to V7.0 first.
- If you are currently using WebSphere MQ V7.0, migrate directly to WebSphere MQ V7.1 without migrating to V7.0.1 first
- If you are using WebSphere MQ V7.0.1, migrate to WebSphere MQ V7.1

A key new feature of WebSphere MQ V7.1 is the ability to install WebSphere MQ in different locations on your system. This also enables multiple versions to be installed at the same time, which can aid in migration, either between releases or when installing fix packs. For instance, this feature includes coexistence with WebSphere MQ V7.0.1. Those current customers using V7.0.1 should find it easier to install WebSphere MQ V7.1 alongside their existing implementation.

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

For details about WebSphere MQ V7.0, refer to Software Announcement [208-068](#), dated April 1, 2008.

For details about WebSphere MQ V7.0.1, refer to Software Announcement [209-245](#), dated August 25, 2009.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Key prerequisites

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

- November 11, 2011 (electronic software delivery)
- November 25, 2011 (media and documentation)

Description

WebSphere MQ delivers Universal Messaging. This new release delivers new features as well as enhancements to past releases.

Multi-version and re-locatable install

Today's IT infrastructure is highly dynamic, subject to changing requirements and configurations. Disruptions to running systems must be minimized. It allows another instance of WebSphere MQ to be installed alongside an already deployed instance.

This new feature can benefit your business in multiple ways. Applying fix packs will involve less business risk, as the installation can be done without disrupting the existing installation. Also, moving from version to version will be faster as the testing will be easier as the new and existing releases will be on the same machines.

This new feature not only allows for multiple versions of WebSphere MQ to be installed on a single machine, but by necessity it enables WebSphere MQ to be installed in a location determined by the installer. Naturally, this may have an effect on any existing utilities that you may have to monitor or control WebSphere MQ. But equally, it may enable the installation to comply with varying local rules for software installs on client systems.

If you are currently running V7.0.1 deployments, the co-existence of WebSphere MQ V7.1 installations alongside these existing deployments can be exploited to reduce the costs and risks of migration.

Support for virtualized environments

Making use of virtualized environments, often described as private clouds is increasingly seen as highly valuable to many businesses. To provision quickly one or more new instances of a proven configuration can make both testing and production more efficient. WebSphere MQ supports these environments through Hypervisor editions. For details, refer to Software Announcement [211-088](#), dated April 5, 2011, and Software Announcement [211-353](#), dated October 4, 2011,

Scalability and message throughput enhancements

Many changes in WebSphere MQ V7.1 enable it to be used in high-performance environments.

- Enhanced logger that gives better persistent throughput across multiple queues
- Enhancements for locking giving better throughput of non-persistent messages on a single queue
- Faster diagnostic trace on Linux™, UNIX™, and Windows™
- Better scalability in utilizing additional cores in the processor
- Improvements in scalability for WebSphere MQ Explorer use with configurations involving multiple servers

Taken together, the throughput benefits are more significant in messages of up to 4K bytes, which for many business environments comprise the majority of messages sent between applications.

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 customers have the option of continuing to use these security exits or instead they have the choice to use IBM provided code, enabling wide-ranging control of multiple security aspects of access to channels.

These security controls are available across all platforms of WebSphere MQ V7.1 and are enabled for use with WebSphere MQ Explorer Security Wizard, a new security wizard, which runs on Linux and Windows.

Other security enhancements include:

- Fine grained control for cluster transmit queue authorization
- Support for SSL provider use of Suite B (FIPS 186-3)
- Enhanced algorithm support for SSL encryption (Elliptic Curve algorithms) and hashing (SHA-2 algorithms)

Extension to support for .NET APIs

A fundamental driver for use of WebSphere MQ is to connect all business applications and systems together. In many enterprises .NET will be a common programming environment. Support for .NET is enhanced to ensure that these applications can be connected more effectively to any other applications. You can now automatically reconnect, and there is a performance harness tool to assist in benchmarking.

Integrated Telemetry function

In recent years, there was a big increase in the number of physical devices connected to business systems, providing data in a more timely manner to deliver increased business value. In recognition of this, the Telemetry feature, which was separately available to extend WebSphere MQ, is included in the product as a part of the WebSphere MQ V7.1 release.

By making use of this feature, businesses can create more connected enterprises, becoming more responsive to customer needs and staying ahead of competitors. Usage of this function is subject to a separate license charge. For more details, refer to Software Announcement [210-201](#), dated July 6, 2010.

Integrated Multicast function

By adding a multicast capability, WebSphere MQ V7.1 enables applications to rapidly and fairly distribute messages to multicast subscribers, including interoperability with WebSphere MQ Low Latency Messaging applications. This feature exploits network-level data distribution to provide peer-to-peer messaging, minimizing routing overheads for non-persistent message publications.

Upgrade from trial-to-production deployment

Users keen to make a rapid start connecting applications with WebSphere MQ can take advantage of the availability of WebSphere MQ as a free download in a trial version. WebSphere MQ V7.1 is enhanced to enable trial versions of WebSphere MQ to be upgraded to a full production license, allowing the work done on the trial version to be preserved and used as the deployment moves to production.

Accessibility by people with disabilities

WebSphere MQ 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.

A U.S. 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

Section 508 of the US Rehabilitation Act

WebSphere MQ V7.1 is capable as of November 25, 2011, when used in accordance with IBM's 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. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following website

<http://w3-03.ibm.com/able/index.html>

Product positioning

WebSphere MQ family offers the universal messaging backbone for SOA 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 Oracle 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 Universal 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-in 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>

Program number

Program number	VRM	Program name
5724-H72	7.1	webSphere MQ

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® website

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

Publications

A printed *Quick Start Guide* is shipped with the product. Online product documentation is integrated within the product and is also supplied on documentation CD-ROMs.

The IBM Publications Center

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

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.

WebSphere MQ V7.1 documentation is shipped in an information center, which can be viewed from a web browser with Internet access or run locally. A local copy of the information center can be installed using the WebSphere MQ V7.1 installation program. Any new or updated Version 7.1 documentation can then be added to that locally installed information center.

On November 11, 2011, the online version of the WebSphere MQ V7.1 information center will be available at

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

Portions of the documentation for WebSphere MQ V7.1 will be translated and available within 30 days of product availability.

Specified operating environment

Hardware requirements**For AIX®**

- 64-bit IBM System p® only

For HP-UX

- Itanium™ systems only

HP-UX PA-RISC is NOT supported

For IBM System i®

- IBM System i systems

For Linux

- Linux for System x® (32-bit) x86 compatible PC hardware, including x86-64 processors
- Linux for System x (64-bit) AMD64, EMT64, and compatible processors
- Linux for System p: 64-bit System i and System p IBM POWER® processor-based systems
- Linux for System z IBM System z9/10 or IBM eServer™ (or equivalent) 64-bit processor

For Oracle Solaris

- Oracle Solaris SPARC: 64-bit SPARC systems only
- Oracle Solaris x86-64: AMD64, EM64T, and compatible processors

For Windows

- x86 and x86-64 (also known as x64) technology-compatible PC hardware

For the WebSphere MQ Telemetry operating environment

WebSphere MQ Telemetry is a feature of the WebSphere MQ product. The Telemetry server only runs on a subset of the WebSphere MQ supported platforms.

Telemetry Java Client is not restricted to running on the reference platforms; it can also run on any platform where a suitable Java runtime is available. The IBM service team may request that a problem be reproduced on a reference platform. The client can be run on the following Java runtimes:

- JSE 1.4.2 or above that is "Java Compatible"
- Java Micro Edition (JME) CLDC 1.1 MIDP 2.0 or later that is Java Powered
- Java Micro Edition (JME) CDC 1.1 Foundation profile 1.1 or later that is Java Powered

Software requirements**For AIX**

- Operating system
 - AIX V6.1 POWER System
 - AIX V7.1 POWER System

- Application servers
 - Oracle/BEA WebLogic Server 11g Release 1
 - WebSphere Application Server V6.1
 - WebSphere Application Server V7.0
 - WebSphere Application Server V8.0
- Compiler
 - COBOL for AIX V3.1
 - Micro Focus Server Express® 5.1
 - XL C/C++ Enterprise Edition for AIX V8.0
 - XL C/C++ Enterprise Edition for AIX V9.0
 - XL C/C++ for AIX V10.1
 - XL C/C++ for AIX V11.1
 - XL C Enterprise Edition for AIX V8.0
 - XL C Enterprise Edition for AIX V9.0
 - XL C for AIX V10.1
- Java Technology
 - IBM Runtime Environment, Java Technology Edition V5.0
 - IBM Runtime Environment, Java Technology Edition V6.0
- Network communication
 - SNA: Communications Server for AIX V6.3
 - TCP/IP: IPv4 and IPv6 provided by the operating system.
- Resource managers (when MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.5
 - DB2 Advanced Enterprise Server Edition V9.7
 - IBM Informix® Dynamic Server V11.1
 - Informix Dynamic Server Enterprise Edition V11.50
 - Oracle Database 11g Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
 - Sybase Adaptive Server Enterprise 15.0
 - Sybase Adaptive Server Enterprise 15.5
- Security
 - IBM Global Security Kit (GSKit) 8.0.0.n
- Supported application servers for the WebSphere MQ Bridge for HTTP
 - WebSphere Application Server V7.0.0.5
 - WebSphere Application Server V8.0
 - WebSphere Application Server Community Edition V2.1
- Transaction manager
 - Oracle Tuxedo 10.3
 - Oracle Tuxedo 11g R1
 - IBM TXSeries for Multiplatforms V6.2
 - TXSeries for Multiplatforms V7.1.0.0
- Virtualization
 - Live Application Mobility (LAM) for Workload Partition (WPAR) AIX V6.1
 - WPAR: Product installed in Global AIX Instance
 - WPAR: Product installed in System Workload Partition AIX V6.1

For HP

- Operating system
 - HP-UX 11i v3 IA64
- Application servers
 - Oracle/BEA WebLogic Server 11g Release 1
 - WebSphere Application Server V6.1
 - WebSphere Application Server V7.0
 - WebSphere Application Server V8.0
- Compilers
 - HP aCC A.06.16
 - Micro Focus Server Express 5.1
 - Java Technology
 - HP Java SDK/JRE/JDK 5.0
 - HP Java SDK/JRE/JDK 6.0
 - Runtime Environment, Java Technology Edition 5.0.10
 - Runtime Environment, Java Technology Edition 6.0
- Network communication
 - HP SNAPplus2 7.0
 - TCP/IP: IPv4 and IPv6 provided by the operating system.
- Resource managers (when MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7
 - DB2 Enterprise Server Edition V9.5
 - IBM Informix Dynamic Server V11.1
 - Informix Dynamic Server Enterprise Edition V11.50
 - Oracle Database 11g Enterprise Edition Release 2
 - Sybase Adaptive Server Enterprise 15.0
- Security
 - IBM Global Security Kit (GSKit) 8.0.0.n
- Supported application servers for the WebSphere MQ Bridge for HTTP
 - WebSphere Application Server V7.0.0.5
 - WebSphere Application Server V8.0
 - WebSphere Application Server Community Edition V2.1
- Transaction manager
 - Oracle Tuxedo 10.3
 - Oracle Tuxedo 11g R1
 - TXSeries for Multiplatforms V6.2
 - TXSeries for Multiplatforms V7.1.0.0
 - WebSphere Application Server V6.1

WebSphere MQ Telemetry Server does not run on this platform.

For IBM System i

- Operating system
 - IBM i 6.1 POWER System
 - IBM i 7.1 POWER System
- Application servers
 - Oracle/BEA WebLogic Server 11g Release 1

- WebSphere Application Server V6.1
- WebSphere Application Server V7.0
- WebSphere Application Server V8.0
- Compilers
 - Rational® Development Studio for i 7.1
 - WebSphere Development Studio for System i V6R1
- Java Technology
 - Developer Kit for Java 6.1 Option 10 of product 5761JV1 *Base
 - IBM AS/400® Developer Kit for Java with JDK V5.0 Option 7 of product 5761JV1 *Base
 - Runtime Environment, Java Technology Edition 5.0 (32-bit: Option 9 of product 5761JV1 *Base, 64-bit: Option 10 of product 5761JV1 *Base)
 - Runtime Environment, Java Technology Edition 6.0 (32-bit: Option 11 of product 5761JV1 *Base, 64-bit: Option 12 of product 5761JV1 *Base)
- Network communication
 - **TCP/IP:** IPv4 and IPv6 provided by the operating system.
 - **SNA LU6.2:** Provided with the operating system.
- Resource managers (when MQ is the transaction manager)
 - DB2 for i5/OS® V6.1
 - IBM i V7.1
- Transaction manager
 - IBM CICS Transaction Server for IBM i V7.1
 - WebSphere Application Server V6.1
- Virtualization
 - IBM PowerVM™ Hypervisor (LPAR, DPAR, Micro-Partition) any supported version

WebSphere MQ Telemetry Server does not run on this platform.

For Linux

- Operating system
 - Red Hat Enterprise Linux (RHEL) 5 Advanced (all platforms)
 - Red Hat Enterprise Linux (RHEL) 6 Advanced (all platforms)
 - SUSE Linux Enterprise Server (SLES) 10 (all platforms)
 - SUSE Linux Enterprise Server (SLES) 11 (all platforms)
 - SUSE Linux Enterprise Point of Service (NLPOS/SLEPOS) 11 x86-32 only
 - IBM Retail Environment for SUSE Linux v2 x86-32
 - Red Flag 5.0 DC Server x86-32
- Application servers
 - Oracle/BEA WebLogic Server 11g Release 3 (System x (x86-64) only)
 - Oracle/BEA WebLogic Server 11g Release 1 (System x only)
 - WebSphere Application Server V6.1
 - WebSphere Application Server V7.0
 - WebSphere Application Server V8.0
- Compilers
 - GNU C Compiler (gcc) and g++ 4.1.2 (RHEL 5 and SLES 10 only)
 - GNU C Compiler (gcc) and g++ 4.3 (SLES 11 only)
 - GNU C Compiler (gcc) and g++ 4.4.4 (RHEL 6 only)
 - Micro Focus Server Express 5.1

- Java Technology
 - IBM Runtime Environment, Java Technology Edition V5.0.10¹
 - IBM Runtime Environment, Java Technology Edition V6.0¹
 - Oracle JRockit 6 (System x only)
 - Sun Java SDK/JRE/JDK 5.0/1.5
 - Sun Java SDK/JRE/JDK 6.0/1.6
- Network communication
 - Communications Server for Linux on zSeries® V6.2²
 - TCP/IP: IPv4 and IPv6 provided by the operating system.

SNA LU6.2 Services for Linux.
- Resource managers (when MQ is the transaction manager)
 - DB2 Enterprise Server Edition V9.5
 - DB2 Enterprise Server Edition V9.7
 - IBM Informix Dynamic Server V11.1
 - Informix Dynamic Server Enterprise Edition V11.50
 - Oracle Database 10g Standard Edition Release 2 (System p and System z only)
 - Oracle Database 11g Enterprise Edition Release 1 (System x only)
 - Oracle Database 11g Enterprise Edition Release 2 (System x only)
 - Sybase Adaptive Server Enterprise 15.0 (System p and System x only)
 - Sybase Adaptive Server Enterprise 15.5 (System p and System x only)
- Security
 - IBM Global Security Kit (GSKit) 8.0.0.n,
- Supported application servers for the WebSphere MQ Bridge for HTTP (System p and System x only)
 - WebSphere Application Server V7.0.0.5
 - WebSphere Application Server V8.0
 - WebSphere Application Server Community Edition 2.1
- Transaction manager
 - WebSphere Application Server V6.1
 - Oracle Tuxedo 10.3 (System p and System x only)
 - Oracle Tuxedo 11g R1 (System p and System x only)
- Virtualization
 - IBM PowerVM Hypervisor (LPAR, DPAR, Micro-Partition) (Linux for System p, only)
 - IBM PR/SM™ any version (Linux for System z and RHEL 5)
 - Red Hat KVM, as delivered with Red Hat Enterprise Linux (RHEL) 5.4
 - z/VM® 6.1 (Linux for System z and RHEL 5)

¹ Only supported if the SDK is supplied with another IBM product.

² Only supported on Linux for System p and Linux for System x 32-bit platforms.

For Oracle Solaris

- Operating system
 - Oracle Solaris 10 SPARC
 - Oracle Solaris 10 x86-64

- Application servers
 - Oracle/BEA WebLogic Server 10g Release 3 10.3 (SPARC only)
 - Oracle/BEA WebLogic Server 11g Release 1
 - WebSphere Application Server V6.1
 - WebSphere Application Server V7.0
 - WebSphere Application Server V8.0

Compilers

- Micro Focus Server Express 5.1
- Sun Studio 12
- Sun Studio 10, C++ Compiler 5.7
- Sun Studio 11, C++ Compiler 5.8
- Sun Studio 9, C++ Compiler 5.6 (SPARC only)
- Java Technology
 - IBM Runtime Environment, Java Technology Edition V5.0.1
 - IBM Runtime Environment, Java Technology Edition V6.0
 - Sun Java SDK/JRE/JDK 5.0/1.5
 - Sun Java SDK/JRE/JDK 6.0/1.6

Network communication

SNA: Data Connection SNAP-IX 7.0 (SPARC only)

TCP/IP: IPv4 and IPv6 provided by the operating system.

- Resource managers (when MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7
 - DB2 Enterprise Server Edition V9.5
 - IBM Informix Dynamic Server V11.1
 - Informix Dynamic Server Enterprise Edition V11.50
 - Oracle Database 11g Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
 - Sybase Adaptive Server Enterprise 15.0
 - Sybase Adaptive Server Enterprise 15.5
- Security
 - IBM Global Security Kit (GSKit) 8.0.0.n

WebSphere MQ Telemetry Server does not run on this platform.

For Windows

- Operating system
 - Windows Embedded Point of Service (WEPOS) 1.0 x86-32
 - Windows XP Professional x86-64
 - Windows XP SP2 Professional x86-32
 - Windows Vista Business, Enterprise, Ultimate (x86-32 and x86-64)
 - Windows Server 2008 Standard Edition, Enterprise Edition (x86-32 and x86-64)
 - Windows Server 2008 R2 Standard Edition, Enterprise Edition (x86-64)
 - Windows 2003 SP1 Standard Edition, Enterprise Edition (x86-32 and x86-64)
 - Windows 2003 R2 SP1 Standard Edition, Enterprise Edition (x86-32 and x86-64)

- Windows 7 Ultimate, Professional, Enterprise (x86-32 and x86-64)
- .Net
 - Microsoft .NET Framework 2.0
 - Microsoft .NET Framework 3.0
 - Microsoft .NET Framework 3.5
 - Microsoft .NET Framework 4.0
- Application servers
 - Oracle/BEA WebLogic Server 10g Release 3 10.3
 - Oracle/BEA WebLogic Server 11g Release 1
 - WebSphere Application Server V6.1
 - WebSphere Application Server V7.0
 - WebSphere Application Server V8.0
- Compilers
 - Micro Focus Server Express 5.1
 - Microsoft Visual Basic 6
 - Microsoft Visual Studio 2005
 - Microsoft Visual Studio 2008
 - Microsoft Visual Studio 2010
 - Rational Developer for System z V7.1
- Java Technology
 - IBM Runtime Environment, Java Technology Edition V5.0.1
 - IBM Runtime Environment, Java Technology Edition V6.0
 - Sun Java SDK/JRE/JDK 5.0 update 1
 - Sun Java SDK/JRE/JDK 6.0/1.6
- Network communication
 - IBM Communications Server V6.1.2 and future releases, modification levels, and fix packs
 - Microsoft Host Integration Server 2009
 - Microsoft Host Integration Server 2010
 - Personal Communications 6.0

TCP/IP: IPv4 and IPv6 provided by the operating system.

NetBIOS: Provided with the operating system on Windows.

SPX: Sequence Package Exchange provided with Windows XP and 2003 operating systems.
- Resource managers (when MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7³
 - DB2 Enterprise Server Edition V9.5 (03)
 - IBM Informix Dynamic Server V11.1
 - Informix Dynamic Server Enterprise Edition V11.50
 - Oracle Database 11g Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
 - Sybase Adaptive Server Enterprise 15.0
 - Sybase Adaptive Server Enterprise 15.5
- Security
 - IBM Global Security Kit (GSKit) 8.0.0.n
- SOAP support
 - Microsoft Internet Information Services 1.0⁴

- Supported application servers for the WebSphere MQ Bridge for HTTP
 - WebSphere Application Server V7.0.0.5
 - WebSphere Application Server V8.0
 - WebSphere Application Server Community Edition V2.1
- Transaction manager
 - Oracle Tuxedo 10.3
 - Oracle Tuxedo 11g R1
 - TXSeries for Multiplatforms V6.2
 - TXSeries for Multiplatforms V7.1.0.0
 - WebSphere Application Server V6.1

COM+/MTS provided with Microsoft Windows may also be used as a transaction manager.

- Mobiles O/S

3 Only 64-bit DB2 instances can be used with 64-bit WebSphere MQ.

4 For running .NET services.

For additional information on software requirements, including WebSphere MQ Telemetry Server, visit

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

For the WebSphere MQ Telemetry operating environment:

WebSphere MQ Telemetry is a feature of the WebSphere MQ product. The Telemetry server only runs on a subset of the WebSphere MQ supported platforms.

For IBM AIX

Operating system

Server, Daemon, C Client & Java Client AIX 6.1 POWER System AIX 7.1 POWER System

For LINUX

Operating system

Server, Daemon, C Client & Java Client

- Red Hat Enterprise Linux (RHEL) 5 Advanced System z
- Red Hat Enterprise Linux (RHEL) 5 Advanced x86-64
- Red Hat Enterprise Linux (RHEL) 6 Advanced System z
- Red Hat Enterprise Linux (RHEL) 6 Advanced x86-64
- SUSE Linux Enterprise Server (SLES) 10 System z
- SUSE Linux Enterprise Server (SLES) 11 x86-64

Daemon, C Client & Java Client only

- Red Hat Enterprise Linux (RHEL) 5 Advanced x86-32
- Red Hat Enterprise Linux (RHEL) 6 Advanced x86-32
- SUSE Linux Enterprise Server (SLES) 11 x86-64

- Linux for ARM processor architecture, with uclibc
- Linux for ARM processor architecture, with glibc

For Windows

Operating system

Server, Daemon, C Client & Java Client

- Windows XP SP2 Professional x86-32
- Windows Server 2008 Standard Edition, Enterprise Edition (x86-32 and x86-64)
- Windows Server 2008 R2 Standard Edition, Enterprise Edition
- Windows 2003 SP1 Standard Edition, Enterprise Edition (x86-32 and x86-64)
- Windows 7 Ultimate, Professional (x86-32 and x86-64)

For Mobile OS

Operating system

Java Client only (when using a Java runtime supplied with IBM Lotus® Expeditor Client for Devices 6.2 or later or IBM Lotus Expeditor Client for Desktop 6.2 or later)

- Windows Mobile 6.0 Professional & Standard
- Windows Mobile 6.1 Professional & Standard
- Windows Mobile 6.5 Professional & Standard

General

Telemetry Java Client is not restricted to running on the reference platforms; it can also run on any platform where a suitable Java runtime is available. The IBM service team may request that a problem be reproduced on a reference platform. The client can be run on the following Java runtimes:

- JSE 1.4.2 or above that is "Java Compatible"
- Java Micro Edition (JME) CLDC 1.1 MIDP 2.0 or later that is Java Powered
- Java Micro Edition (JME) CDC 1.1 Foundation profile 1.1 or later that is Java Powered

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Compatibility

WebSphere MQ V7.1 queue managers and clients interoperate with queue managers and clients from any previous level of WebSphere MQ or MQSeries products.

The WebSphere MQ Explorer runs on the Linux on x86 and Windows platforms. The MQ Explorer can be used on a client connection from an earlier supported level of WebSphere MQ or MQSeries on a different platform (for example, WebSphere MQ V5.3 on AIX or MQSeries V5.1 on Oracle Solaris, Intel™ Platform Edition). The MQ 7.1 Explorer is not compatible with MQ Telemetry 7.0.1.

Limitations

For additional information, refer to [Usage restriction](#) in the [Terms and conditions](#) 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

From WebSphere MQ V7.1, the ActiveDirectory Services Interface will no longer be available.

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

- SPX, NetBIOS and SNA client connection channels
- SPX and NetBIOS queue manager to queue manager 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
- Use of the Microsoft Windows Registry to store any WebSphere MQ configuration data
- 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.

Customer responsibilities

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

The WebSphere MQ V7.1 Media Pack comprises the following CD-ROMs:

- WebSphere MQ for AIX
- WebSphere MQ for HP-UX on Itanium platform
- WebSphere MQ for IBM i
- WebSphere MQ for Linux on x86-64 platform
- WebSphere MQ for Linux on x86 platform
- WebSphere MQ for Linux on System z platform
- WebSphere MQ for Linux on POWER platform
- WebSphere MQ for Solaris on x86-64 platform
- WebSphere MQ for Solaris SPARC platform
- WebSphere MQ for Windows
- WebSphere MQ Clients
- WebSphere MQ Quick Start
- WebSphere MQ Documentation for Windows
- WebSphere MQ Documentation for Linux

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

WebSphere MQ uses the security and auditability features of the host software.

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

Software Services

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<http://www.ibm.com/software/sw-services/>

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Licensed function title	Product group	Product category
WebSphere MQ	IBM MQSeries	MQSeries
Program name	PID number	Charge unit description
WebSphere MQ	5724-H72	Per Processor Value Unit (PVU) for Linux on System z
WebSphere MQ	5724-H72	Per PVU
WebSphere MQ	5724-H72	PROCESSOR-Day
Product group: IBM MQSeries		
Product Identifier Description (PID)		
WebSphere MQ	5724-H72	

Product category: MQ Series

Charge metric

Program name	Part number or PID number	Charge metric
WebSphere MQ	5724-H72	per Processor Value Unit

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the web page below). If using Full Capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the Program, except for those servers from which the Program has been permanently removed. If using Virtualization Capacity licensing, Licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the Program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html

* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes

- Some programs may require licenses for the program **and** what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

The programs in this announcement all have Value Unit-based pricing.

Program number	Program name
5724-H72	websphere MQ

For each System 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 System 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 using WebSphere MQ with Multi-Instance Queue Managers and for Idle Standby, refer to Software Announcement [211-232](#), dated May 17, 2011.

Passport Advantage

Program name/Description	Part number
WebSphere MQ	
WebSphere MQ Per Processor Value Unit (PVU) Annual SW S&S Rnw1	E0256LL
WebSphere MQ Per Processor Value Unit (PVU) Lic + SW S&S 12 Mo	D55V1LL
WebSphere MQ Per Processor Value Unit (PVU) SW S&S Reinstate 12 Mo	D55V2LL
MQ Idle Standby PVU Lic+1yr Maint	D0GGQLL
MQ Idle Standby PVU S&S Renewal	E0ALULL
MQ Idle Standby PVU Reinstate 12 Mo	D0GGSLL
WebSphere MQ Telemetry	
WebSphere MQ Telemetry 100 Client Devices Annual SW S&S Rnw1	E08V4LL
WebSphere MQ Telemetry 100 Client Devices Lic + SW S&S 12 Mo	D0D6JLL
WebSphere MQ Telemetry 100 Client Devices SW S&S Reinstate 12 Mo	D0D6KLL
WebSphere MQ Telemetry Advanced	
WebSphere MQ Telemetry Advanced 100 Client Devices Annual SW S&S Rnw1	E08V3LL
WebSphere MQ Telemetry Advanced 100 Client Devices Lic + SW S&S 12 Mo	D0D6HLL
WebSphere MQ Telemetry Advanced 100 Client Devices SW S&S Reinstate 12 Mo	D0D6ILL

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

WebSphere MQ V7.1.0

Entitled maintenance offerings description	Media packs description	Part number
WebSphere MQ Linux zSeries Processor Value Unit	WebSphere MQ V7.1 for Multipplatforms Multilingual Media Pack	BA12PML
WebSphere MQ Processor Value Unit	WebSphere MQ V7.1 for Multipplatforms Multilingual Media Pack	BA12PML

Cross-platform product for use on System z Integrated Facility for Linux (IFL) engines

Order the part numbers that follow when the product is intended to run on the Linux operating system on System z IFL engines. If the product is not intended to run on the Linux operating system on System z IFL engines, order from the other set of part numbers in this announcement.

This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Program name/Description	Part number
WebSphere MQ	
WebSphere MQ Per Proc VU for Lin Sys z Annual SW S&S Rnw1	E0257LL
WebSphere MQ Per Proc VU for Lin Sys z Lic + SW S&S 12 Mo	D55V4LL
WebSphere MQ Per Proc VU for Lin Sys z SW S&S Reinstate 12 Mo	D55V5LL
MQ Idle Standby Linux on System z PVU Lic+1yr Maint	D0GGNLL
MQ Idle Standby Linux on System z PVU S&S Renewal	E0ALTLL
MQ Idle Standby Linux on System z PVU Reinstate 12 Mo	D0GGPLL

On/Off Capacity on Demand (CoD)

Part number	Description
ASQ24LL	WebSphere MQ PROCESSOR-Day(s) Per Use-Day 00CoD

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License Information form number

Program name	Program number	License ID
WebSphere MQ	5724-H72	L-APIG-8K4ECC

The program's License Information will be available for review on the IBM Software License Agreement website

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

Limited warranty applies

Yes

Limited warranty

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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.

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Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Usage restriction

Yes. Various Program Unique Terms set forth or referred to below apply to the Program and to its components as identified below, and are in addition to, and may modify, those of the IBM International Program License Agreement.

1. Charging and license use management

Charges for authorized use of the Program are based on processor Value Units.

License Use Management software is used to monitor compliance. The Licensee should retain all Passport Advantage documents as Proofs of Entitlement.

No separate server or client authorizations are required to license any other component part of the Program, including the Information Center, the MQ Resource Adapter, and the MQ Explorer.

2. Extended Transactional Client

In addition to the MQ clients, WebSphere MQ delivers an extended transactional client for each client platform.

If the Licensee chooses to use an extended transactional client, the Licensee must purchase a license for the machine on which they are running the client. The only exception to this requirement is if the transaction manager that they are using is provided by (i) WebSphere Application Server, (ii) WebSphere Enterprise Service Bus, or (iii) WebSphere Process Server, each of which includes extended transactional client capability.

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Sub-capacity pricing terms and conditions

To be eligible for sub-capacity pricing, the machine on which the eligible products are installed and running must be eligible for sub-capacity pricing terms and conditions. Software pricing, at less than full machine capacity for eligible products, apply when running:

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- OS/400® V5R1, or later, running on an IBM System i
- Linux running in an LPAR under AIX 5L V5.1, OS/400 V5R1, or in a partition on an equivalent partition-capable operating system and server

Sub-capacity pricing for eligible products is based on the current program pricing methodology, but the number of processors will be determined based on the sum of processors for all partitions where the program is defined (used). To obtain pricing at less than full machine capacity for eligible products, you are required to:

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On/Off Capacity on Demand (CoD)

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Corrections

(Corrected on December 16, 2011)

Corrected Program technical support statement.