



IBM MQ V8.0 delivers improved scalability, enhanced security, and updates to standards and currency

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At a glance

IBM® MQ for Multiplatforms, V8.0 (MQ V8) offers a universal messaging solution. It delivers the messaging you need, where you need it, from enterprise messaging for secure core business applications to mobile messaging to extend your business to the Internet of things and mobile devices. With MQ V8, you have access to the key business data in files across your business, and simplified messaging access for your application developers.

The key features of IBM MQ V8 can be grouped mainly into themes of improved scalability, enhanced security, and updates to standards and currency.

Enhancements include:

- Verification of user ID and password, making use of either operating system definitions or a Lightweight Directory Access Protocol (LDAP) repository
- Use of Domain Name System (DNS) host names in Channel Authentication Records (CHLAUTH)
- Channel-level certificates, allowing multiple certificates to be used in a queue manager
- Routed publish-subscribe in clusters
- Enhanced status reporting for publish-subscribe
- Performance enhancements including queue manager scaling and multiplexed client performance
- Support for updated standards
- Support on all platforms for 64-bit queue managers
- Support for multiple transmission queues defined for use in a clustered queue manager on all platforms
- Availability on all platforms of both Advanced Message Security and Managed File Transfer

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

Overview

IBM MQ for Multiplatforms, V8.0 is a robust and secure messaging middleware offering, allowing applications, systems, services, and files to exchange data rapidly and reliably.

For more than 20 years IBM has led the market in messaging middleware, with more than 10,000 businesses across all geographies and industries able to rely on IBM MQ.

IBM MQ V8.0 builds on the functions and capabilities that were added in previous releases of IBM WebSphere® MQ, IBM WebSphere MQ Advanced, IBM WebSphere MQ Advanced Message Security, IBM WebSphere MQ Managed File Transfer, and IBM WebSphere MQ Telemetry.

Customers with an active license can obtain the new and enhanced functions offered in IBM MQ V8 by migrating directly to V8.0 from IBM WebSphere MQ V7.0.1, V7.1, or V7.5, where available, without migrating to an interim version or release.

The key features of IBM MQ V8 can be grouped mainly into themes of improved scalability, enhanced security, and updates to standards and currency.

These updates are in support of the key deliverables that comprise the IBM MQ V8.0 offering. Central in this offering is IBM MQ Advanced V8, which provides combined entitlement to all the core functions and capabilities delivered by the offering, without needing additional separate entitlements for each chargeable component. These separately chargeable components available in IBM MQ Advanced include:

- The IBM MQ product itself, which provides the enterprise messaging infrastructure
- IBM MQ Advanced Message Security, which provides policy-based end-to-end encryption of the message contents
- IBM MQ Telemetry, which provides lightweight, scalable connectivity to MQ Telemetry Transport (MQTT)-connected clients and devices
- WebSphere Managed File Transfer, which provides combined entitlement to IBM MQ Managed File Transfer Service, IBM Sterling Connect:Direct®, and IBM Sterling Control Center, as described in Software Announcement [214-038](#), dated March 11, 2014

Key prerequisites

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

Planned availability date

- May 23, 2014: Electronic software delivery
- June 13, 2014: Physical media

Description

IBM MQ V8 builds on the functions and capabilities that were added in previous releases of WebSphere MQ, WebSphere MQ Advanced, WebSphere MQ Advanced Message Security, WebSphere MQ Managed File Transfer, and WebSphere MQ Telemetry.

The key features of IBM MQ V8 can be grouped mainly into themes of improved scalability, enhanced security, and updates to standards and currency.

Enhanced security

IBM MQ V8 adds the ability to authenticate using an identity defined to the OS instance in which the MQ is running or to retrieve the identity from an external repository. This can be used in place of the existing MQ authentication mechanism. This new authentication feature will help reduce the administration of defining and removing users, especially across multiple systems.

An additional security enhancement in IBM MQ V8 allows CHLAUTH definitions to use DNS (domain) host names instead of being forced to use IP addresses. Use of IP addresses continues to be best practice but users now have the choice of either approach, which can simplify matters when machines move IP addresses. This enhancement will enable the removal of user exits where customers have used these to deliver this capability in the past.

Another security enhancement in IBM MQ V8 is to enable more flexible security configuration of a queue manager. A queue manager can now have multiple certificates, each signed by a different certificate authority. This will now enable a single queue manager to communicate with different partners, each of whom uses a different certificate authority, simply by controlling this through channel definitions.

Enhancements to scalability

IBM MQ V8 has made enhancements to how publish-subscribe can be deployed when using clustering. In this release it is now possible to assign roles to queue managers in a cluster. A subset of those queue managers in a cluster can be configured for more efficient routing of messages. This will assist in the propagation of publications which can then help publish-subscribe configurations scale more effectively.

Further enhancements in scalability in IBM MQ V8 include improved exploitation of the larger symmetric multiprocessing (SMP) machines now available, with increased performance available for real-world deployments rather than tuned for benchmarks.

Updates to standards and currency

With the availability of IBM MQ V8, all MQ queue manager platforms now support 64-bit server implementations, subject to appropriate hardware support and operating system support. In this release support has also been added for JMS 2.0, including new messaging features and API changes. This enables businesses to move up to this new level of JMS as required. There are also enhancements in .NET support, with the MQ .NET classes now supporting SSL without additional component installation required. Microsoft™ Windows™ native certificate stores are also supported with .NET applications. Additionally, the Windows Communication Foundation interface is extended to support non-SOAP, non-JMS messages. These changes all contribute to simplifying the use of IBM MQ in .NET configurations.

Integrated Advanced Message Security

IBM MQ Advanced Message Security has been available for a number of years, but with this release is now available for the first time on the IBM i platform. This therefore allows you to protect the security of your messages from application to application, without the need to change the application code itself, across the widest range of MQ platforms. As with recent releases on other platforms, this capability is integrated into the core IBM MQ V8 installation, making it simpler for users to see the function, and to have it installed should you wish to buy license entitlement to use it. License entitlement is included in IBM MQ Advanced.

Improved application isolation

A previous release of IBM MQ included improved ability to scale for differing workload environments by the ability to configure multiple transmission queues in an IBM MQ clustered environment. This enables applications with different workloads and performance requirements to operate at their own rate without impacting other applications. With IBM MQ V8, this feature is now available for the first time on the IBM i platform.

Increased functionality in IBM MQ Telemetry

IBM MQ Telemetry enables IBM MQ servers to connect to MQTT clients. Prior to IBM MQ V8, this was available in two different licenses: Standard or Advanced. With Standard licensing, MQ servers could connect to MQTT clients. With Advanced licensing, there was entitlement to deploy and connect to the MQ Telemetry Daemon for Devices, which allowed buffering for MQTT messages and acted as a client

concentrator. With IBM MQ V8 all of this function is now available with the regular IBM MQ Telemetry license, offering improved flexibility of deployment options at no additional license cost. IBM MQ Advanced still includes licensing for IBM MQ Telemetry deployment for all IBM MQ servers with any amount of IBM MQ Advanced licenses purchased.

Enhancements and changes in Managed File Transfer capabilities

IBM MQ has included Managed File Transfer capabilities for a number of years, allowing users to use the MQ environment to send and receive data in and out of files. This enabled file-to-file transfer, message-to-file transfer, and file-to-message transfer, with configuration and monitoring through MQ Explorer. As announced in Software Announcement [214-038](#), dated March 11, 2014, the Managed File Transfer capabilities provided with IBM MQ have been enhanced through the additional entitlement to IBM Sterling Connect:Direct for peer-to-peer file transfer, and entitlement to IBM Sterling Control Center which provides event-based monitoring and management for file transfers supporting both IBM MQ Managed File Transfer and IBM Sterling Connect:Direct. This increases the function and capabilities available to users of IBM MQ wanting to reliably and securely move files or file contents. As part of this update and enhancement to previous releases, the WebSphere MQ Managed File Transfer Agent, now available as part of the WebSphere Managed File Transfer Managed Endpoint entitlement, is licensed per Install instead of per Client Device.

Accessibility by people with disabilities

IBM MQ V8.0 is capable as of May 23, 2014, 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

IBM MQ V8.0 is capable as of May 23, 2014, 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 US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following website

http://www.ibm.com/able/product_accessibility/index.html

Product positioning

The IBM MQ family offers a universal messaging backbone for connectivity between all types of applications and systems, including SOA deployments. It connects new and existing applications, as well as web services, with reliable messaging. IBM MQ provides the reliable and secure messaging needed as a transport layer to underpin an enterprise service bus (ESB). It delivers guaranteed, reliable messaging - as well other qualities of service - offering a choice in the class of delivery.

IBM MQ supports industry-standard Java™ Message Service (JMS 2.0) messaging. It enables simple, RESTful access from Web 2.0 to core back-end applications. IBM MQ integrates virtually any commercial IT system with support for more than 80 platform configurations. It integrates Java Enterprise Edition (JEE) applications, .NET applications, CICS®, IMS™, DB2®, and packaged applications.

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.

- IBM MQ, the core of application integration, delivers the reliable and proven messaging backbone for SOA connectivity, as the universal, multipurpose data transport. It connects many commercial IT systems, with support for more than 80 platform configurations. IBM MQ supports industry-standard JMS 2.0 messaging and offers a choice of APIs. IBM MQ interoperates with the JMS messaging services embedded in WebSphere Application Server, enabling JEE environments to bridge to other environments. IBM MQ is a flexible connectivity solution that can grow incrementally with changing business needs.
- IBM MQ for z/OS® exploits the capabilities of the IBM System z® platform to deliver a messaging powerhouse.
- WebSphere MQ for HP OpenVMS, WebSphere MQ for HP NonStop Server, and WebSphere MQ for z/VSE® all extend the reach of IBM MQ to these specific computing platforms.
- IBM MQ Advanced Message Security expands the industry-standard security 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.
- WebSphere Managed File Transfer Service and WebSphere Managed File Transfer Endpoints 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, or use IBM Sterling Connect:Direct to move files between systems. This capability is further enhanced with IBM Sterling Control Center for event-based monitoring and management of file transfers. Licensing for WebSphere Managed File Transfer is subject to entitlement in addition to IBM MQ entitlement, but licensing for WebSphere 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 such as mobile phones, extending 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 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 very 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, augmenting 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, the IBM Tivoli® portfolio offers systems management for large-scale IBM MQ solutions. Tivoli OMEGAMON® XE for Messaging can help improve the availability and performance of IBM MQ solutions. It can identify common problems and automate corrective actions using predefined industry best-practice situations,

while monitoring key IBM MQ metrics. It can also 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 IBM MQ environments, can improve IT staff productivity and reduce administration costs.

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

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

Statement of direction

IBM intends to deliver features into IBM MQ to allow applications that have been developed to the MQ Light API to be run on IBM MQ. 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. MQ Light is currently in open alpha and consequently content, features, and name are subject to change.

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.

Reference information

For details about related products, refer to:

- IBM WebSphere MQ V8.0 for z/OS : Software Announcement [214-180](#), dated April 22, 2014
- WebSphere MQ for z/OS V8.0: Software Announcement [214-176](#), dated April 22, 2014
- IBM MQ V7.5 with Sterling Managed File Transfer: Software Announcement [214-038](#), dated March 11, 2014

Program number

Program number	VRM	Program name
5724-H72	8.0	IBM MQ for Multiplatforms

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.

IBM WebSphere MQ V8.0 documentation is published in IBM Knowledge Center, which can be viewed from a web browser with Internet access.

On June 13, 2014, the online version of the IBM WebSphere MQ V8.0 product documentation will be available at

http://www.ibm.com/support/knowledgecenter/SSFKSJ_8.0.0/welcome/WelcomePagev8r0.html

Product documentation

IBM WebSphere MQ V8.0 product documentation is provided online, through IBM Knowledge Center.

Online information in IBM Knowledge Center: Online documentation for IBM WebSphere MQ V8.0 is now hosted in IBM Knowledge Center. IBM Knowledge Center provides information for over 2,500 IBM products. The information that was previously provided in product Information Centers is in IBM Knowledge Center. IBM Knowledge Center provides integrated tools for finding, filtering, customizing, saving, and sharing information.

Benefits include:

- Consolidation: IBM Knowledge Center is one place to go to find information about all IBM products.
- Consistency: There were differences in the presentation and function of Information Centers between products. IBM Knowledge Center provides the same set of functions for all product information.
- Customization: Customers can use IBM Knowledge Center filtering capabilities to select the information that is most relevant to them, and build that information into customized collections for viewing online or in PDF. IBM updates to the information are automatically reflected in such collections.

For more information about the features of IBM Knowledge Center, see the welcome page, at

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

For the IBM WebSphere MQ V8.0 product documentation in IBM Knowledge Center, on June 13, 2014, visit

http://www.ibm.com/support/knowledgecenter/SSFKSJ_8.0.0/welcome/WelcomePagev8r0.html

Technical information

Specified operating environment

Hardware requirements

For IBM AIX® - 64-bit IBM System p® server

For HP-UX - Itanium™ systems only; HP-UX PA-RISC is not supported

For Linux

- Linux for System x® (32-bit): x86 compatible PC hardware, including x86-64 processors (1)

- Linux for System x (64-bit): AMD64, x86-64, 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®, System z10®, or 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 (1) and x86-64 (also known as x64) technology-compatible PC hardware

(1) Only the C MQ Client is supported on 32-bit environments.

Software requirements

For complete details regarding the minimum software requirements to install and run IBM MQ for Multiplatforms V8.0, available on May 23, 2014, refer to

<http://www.ibm.com/support/docview.wss?uid=swg27006467>

Minimum software requirements:

For AIX :

- Operating system
 - AIX V7.1 TL2 POWER system
 - AIX V6.1 TL8 POWER system
- Application servers
 - All application servers that support the Java EE 7.0 specification
- LDAP servers
 - All LDAP servers that support the LDAP V2 or V3 specification
- Supported application servers for WebSphere MQ Managed File Transfer
 - WebSphere Application Server V8.5
 - WebSphere Application Server V8.0
 - WebSphere Application Server V7.0 fix pack 7.0.0.17 (2)
- Supported databases for WebSphere MQ Managed File Transfer
 - DB2 Enterprise Server Edition V10.5
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V9.7.0.6
 - Oracle Database 12c Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
- Supported web browsers for WebSphere MQ Managed File Transfer web gateway administrative console and sample web application
 - Mozilla Firefox ESR24 or later
 - Internet Explorer 10 or later
- Prerequisites to run the WebSphere MQ Managed File Transfer protocol bridge agent - A standards-compliant FTP, FTPS, or SFTP server that uses a UNIX™ or Windows style file system format

- Prerequisites to run an IBM Sterling Connect:Direct node as a source or destination of a transfer through a WebSphere MQ Managed File Transfer Connect:Direct bridge agent
 - IBM Sterling Connect:Direct for Windows V4.5.01 server (Build 16 QC18989 or later)
 - IBM Sterling Connect:Direct for Windows V4.4.01 server (Build 11)
 - IBM Sterling Connect:Direct for UNIX V4.0.0.0 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for UNIX V3.8 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for z/OS V5.0.00 server (with POST5000 APAR bucket)
 - IBM Sterling Connect:Direct for z/OS V4.8 server (with maintenance PTF PUT4802 or later)
 - IBM Sterling Connect:Direct for z/OS V4.7 server (with maintenance PTF PUT4702 or later)
 - IBM Sterling Connect:Direct for z/OS V4.6 server (with maintenance PTF PUT4603 or later)

For details about supported platforms, refer to the IBM Sterling Connect:Direct website at

<http://www-01.ibm.com/software/commerce/managed-file-transfer/products/connect-direct/>

- Compiler
 - COBOL for AIX V3.1
 - COBOL for AIX V4.1
 - COBOL for AIX V4.1.1
 - Micro Focus Server Express® 5.1
 - XL C/C++ for AIX V10.1
 - XL C/C++ for AIX V11.1
 - XL C/C++ for AIX V12.1
 - XL C for AIX V10.1
 - XL C for AIX V11.1
 - XL C for AIX V12.1
- Java Technology
 - IBM Runtime Environment, Java Technology Edition V7

WebSphere MQ Advanced Message Security policies are supported for Java applications using bindings on any supported Java run time. Support for Java applications using client connections is limited to those running under a supported Java run time.

- Network communication
 - SNA: Communications Server for AIX V6.4
 - TCP/IP: IPv4 and IPv6 provided by the operating system
- Resource managers (when WebSphere MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7.0.6
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.5
 - IBM Informix® Server V11.70

- IBM Informix Server V12.10
- Oracle Database 11g Enterprise Edition Release 2
- Oracle Database 12c Enterprise Edition Release 1
- Sybase Adaptive Server Enterprise 15.0
- Sybase Adaptive Server Enterprise 15.5
- Transaction manager
 - Oracle Tuxedo 11g R1
 - IBM TXSeries for Multiplatforms V7.1
 - IBM TXSeries for Multiplatforms V8.1
 - IBM WebSphere Application Server V7.0
 - IBM WebSphere Application Server V8.0
 - IBM WebSphere Application Server V8.5.5
- Virtualization
 - Live Application Mobility (LAM) for Workload Partition (WPAR)
 - WPAR: Product installed in Global AIX Instance, executed in System Workload Partition
 - WPAR: Product installed in System Workload Partition

(2) Latest application server version supported for the WebSphere Managed File Transfer Web Gateway component.

For HP: (3)

- Operating system - HP-UX 11i v3 (11.31)
- Application servers
 - All application servers that support the Java EE 7.0 specification LDAP servers
- LDAP servers
 - All LDAP servers that support the LDAP V2 or V3 specification
- Supported databases for WebSphere MQ Managed File Transfer
 - DB2 Enterprise Server Edition V10.5
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V9.7.0.6
 - Oracle Database 12c Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
- Prerequisites to run the WebSphere MQ Managed File Transfer protocol bridge agent - A standards-compliant FTP, FTPS, or SFTP server that uses a UNIX or Windows style file system format
- Prerequisites to run an IBM Sterling Connect:Direct node as a source or destination of a transfer through a WebSphere MQ Managed File Transfer Connect:Direct bridge agent
- IBM Sterling Connect:Direct for Windows V4.5.01 server (Build 16 QC18989 or later)
- IBM Sterling Connect:Direct for Windows V4.4.01 server (Build 11)
- IBM Sterling Connect:Direct for UNIX V4.0.0.0 server (with 04 March 2011 maintenance or later)
- IBM Sterling Connect:Direct for UNIX V3.8 server (with 04 March 2011 maintenance or later)

- IBM Sterling Connect:Direct for z/OS V5.0.00 server (with POST5000 APAR bucket)
- IBM Sterling Connect:Direct for z/OS V4.8 server (with maintenance PTF PUT4802 or later)
- IBM Sterling Connect:Direct for z/OS V4.7 server (with maintenance PTF PUT4702 or later)
- IBM Sterling Connect:Direct for z/OS V4.6 server (with maintenance PTF PUT4603 or later)

For details about supported platforms, refer to the IBM Sterling Connect:Direct website at

<http://www-01.ibm.com/software/commerce/managed-file-transfer/products/connect-direct/>

- Compilers
 - HP aCC A.06.16 and future versions
 - Micro Focus Server Express 5.1
- Java Technology
 - HP Java SDK/JRE/JDK 7.0
 - IBM Runtime Environment, Java Technology Edition V7

WebSphere MQ Advanced Message Security policies are supported for Java applications using bindings on any supported Java run time. Support for Java applications using client connections is limited to those running under a supported Java run time.

- Network communication
 - HP SNAplus2 7.0
 - TCP/IP: IPv4 and IPv6 provided by the operating system
- Resource managers (when WebSphere MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7.06
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.5
 - IBM Informix Server V11.70
 - IBM Informix Server V12.10
 - Oracle Database 11g Enterprise Edition Release 2
 - Oracle Database 12c Enterprise Edition Release 1
 - Sybase Adaptive Server Enterprise 15.0
 - Sybase Adaptive Server Enterprise 15.5
- Transaction manager
 - Oracle Tuxedo 11g R1
 - IBM TXSeries for Multiplatforms V7.1
 - IBM TXSeries for Multiplatforms V8.1
 - IBM WebSphere Application Server V7.0
 - IBM WebSphere Application Server V8.0
 - IBM WebSphere Application Server V8.5.5

(3) WebSphere MQ Telemetry Server does not run on this platform.

For Linux :

- Operating system
 - Red Hat Enterprise Linux (RHEL) Server 6 Server Update 3 (x86-64, System p and System z) (4)
 - SUSE Linux Enterprise Server (SLES) 11 SP2 (x86-64, System p and System z) (4)
- Application servers
 - All application servers that support the Java EE 7.0 specification
- LDAP servers
 - All LDAP servers that support the LDAP V2 or V3 specification
- Supported application servers for WebSphere MQ Managed File Transfer
 - WebSphere Application Server V8.5
 - WebSphere Application Server V8.0
 - WebSphere Application Server V7.0 fix pack 7.0.0.17 (5)
- Supported databases for WebSphere MQ Managed File Transfer
 - DB2 Enterprise Server Edition V10.5
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V9.7.0.6
 - Oracle Database 12c Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
- Supported web browsers for WebSphere MQ Managed File Transfer web gateway administrative console and sample web application
 - Mozilla Firefox ESR24 or later
 - Internet Explorer 10 or later
- Prerequisites to run the WebSphere MQ Managed File Transfer protocol bridge agent - A standards-compliant FTP, FTPS, or SFTP server that uses a UNIX or Windows style file system format
- Prerequisites to run an IBM Sterling Connect:Direct node as a source or destination of a transfer through a WebSphere MQ Managed File Transfer Connect:Direct bridge agent
 - IBM Sterling Connect:Direct for Windows V4.5.01 server (Build 16 QC18989 or later)
 - IBM Sterling Connect:Direct for Windows V4.4.01 server (Build 11)
 - IBM Sterling Connect:Direct for UNIX V4.0.0.0 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for UNIX V3.8 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for z/OS V5.0.00 server (with POST5000 APAR bucket)
 - IBM Sterling Connect:Direct for z/OS V4.8 server (with maintenance PTF PUT4802 or later)
 - IBM Sterling Connect:Direct for z/OS V4.7 server (with maintenance PTF PUT4702 or later)
 - IBM Sterling Connect:Direct for z/OS V4.6 server (with maintenance PTF PUT4603 or later)

For details about supported platforms, refer to the IBM Sterling Connect:Direct website at

- Compilers
 - GNU C Compiler (gcc) and g++ 4.3
 - GNU C Compiler (gcc) and g++ 4.4.4
 - Micro Focus Server Express 5.1
- Java Technology
 - IBM Runtime Environment, Java Technology Edition V7

WebSphere MQ Advanced Message Security policies are supported for Java applications using bindings on any supported Java run time. Support for Java applications using client connections is limited to those running under a supported Java run time.

- Network communication
 - SNA: IBM Communications Server for Linux V6.4 (System p)
 - SNA: IBM Communications Server for Linux on System z V6.4 (System p)
 - TCP/IP: IPv4 and IPv6 provided by the operating system
 - SNA LU6.2 Services for Linux
- Resource managers (when WebSphere MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7.06
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.5
 - IBM Informix Server V11.70
 - IBM Informix Server V12.10
 - Oracle Database 11g Enterprise Edition Release 2
 - Oracle Database 12c Enterprise Edition Release 1
 - Sybase Adaptive Server Enterprise 15.0
 - Sybase Adaptive Server Enterprise 15.5
- Transaction manager
 - Oracle Tuxedo 11g R1
 - IBM TXSeries for Multiplatforms V7.1
 - IBM TXSeries for Multiplatforms V8.1
 - IBM WebSphere Application Server V7.0
 - IBM WebSphere Application Server V8.0
 - IBM WebSphere Application Server V8.5.5
- Virtualization
 - IBM PowerVM® Hypervisor (LPAR, DPAR, Micro-Partition) (Linux for System p)
 - IBM PR/SM™ any version (Linux for System z)
 - Red Hat KVM, as delivered with Red Hat Enterprise Linux (RHEL)
 - SUSE KVM, as delivered with SUSE Linux Enterprise Server (SLES)
 - VMware ESXi V5.0 and V5.1 (Linux on x86-32 and x86-64)

(4) The WebSphere MQ Telemetry Server component is only supported for the WebSphere Managed File Transfer Web Gateway component.

(5) Latest application server version supported for the WebSphere Managed File Transfer Web Gateway component.

For Oracle Solaris: (6)

- Operating system
 - Oracle Solaris 10 SPARC
 - Oracle Solaris 10 x86-64
 - Oracle Solaris 11 SPARC
 - Oracle Solaris 11 x86-64
- Application servers
 - All application servers that support the Java EE 7.0 specification
- LDAP servers
 - All LDAP servers that support the LDAP V2 or V3 specification
- Supported databases for WebSphere MQ Managed File Transfer
 - DB2 Enterprise Server Edition V10.5
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V9.7.0.6
 - Oracle Database 12c Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
- Prerequisites to run the WebSphere MQ Managed File Transfer protocol bridge agent - A standards-compliant FTP, FTPS, or SFTP server that uses a UNIX or Windows style file system format
- Prerequisites to run an IBM Sterling Connect:Direct node as a source or destination of a transfer through a WebSphere MQ Managed File Transfer Connect:Direct bridge agent
 - IBM Sterling Connect:Direct for Windows V4.5.01 server (Build 16 QC18989 or later)
 - IBM Sterling Connect:Direct for Windows V4.4.01 server (Build 11)
 - IBM Sterling Connect:Direct for UNIX V4.0.0.0 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for UNIX V3.8 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for z/OS V5.0.00 server (with POST5000 APAR bucket)
 - IBM Sterling Connect:Direct for z/OS V4.8 server (with maintenance PTF PUT4802 or later)
 - IBM Sterling Connect:Direct for z/OS V4.7 server (with maintenance PTF PUT4702 or later)
 - IBM Sterling Connect:Direct for z/OS V4.6 server (with maintenance PTF PUT4603 or later)

For details about supported platforms, refer to the IBM Sterling Connect:Direct website at

<http://www-01.ibm.com/software/commerce/managed-file-transfer/products/connect-direct/>

- Compilers
 - Micro Focus Server Express 5.1
 - Oracle Solaris Studio 12.2

- Java Technology
 - IBM Runtime Environment, Java Technology Edition V7
 - Oracle Java SDK/JRE/JDK 7.0

WebSphere MQ advanced message security policies are supported for Java applications using bindings on any supported Java run time. Support for Java applications using client connections is limited to those running under a supported Java run time.

- Network communication
 - SNA: Data Connection SNAP-IX 7.0 (SPARC)
 - TCP/IP: IPv4 and IPv6 provided by the operating system
- Resource managers (when WebSphere MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7.06
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.5
 - IBM Informix Server V11.70
 - IBM Informix Server V12.10
 - Oracle Database 11g Enterprise Edition Release 2
 - Oracle Database 12c Enterprise Edition Release 1
 - Sybase Adaptive Server Enterprise 15.0
 - Sybase Adaptive Server Enterprise 15.5
- Transaction manager
 - Oracle Tuxedo 11g R1
 - IBM TXSeries for Multiplatforms V7.1
 - IBM TXSeries for Multiplatforms V8.1
 - IBM WebSphere Application Server V7.0
 - IBM WebSphere Application Server V8.0
 - IBM WebSphere Application Server V8.5.5

(6) WebSphere MQ Telemetry does not run on this platform.

For Windows :

- Operating system
 - Windows Server 2008 R2 SP1 Standard Edition, Datacenter Edition, Enterprise Edition (x86-64)
 - Windows Server 2012 Standard Edition, Datacenter Edition (x86-64)
 - Windows Server 2012 R2 Standard Edition, Datacenter Edition (x86-64)
 - Windows 7 SP1 Ultimate, Professional, Enterprise (x86-32 and x86-64)
 - Windows 8 Standard, Professional, Enterprise (x86-32 and x86-64)
 - Windows 8.1 Standard, Professional, Enterprise (x86-32 and x86-64)
- .NET (7)
 - Microsoft.NET Framework 3.5
 - Microsoft.NET Framework 4.0
- Application servers
 - All application servers that support the Java EE 7.0 specification

- LDAP servers
 - All LDAP servers that support the LDAP V2 or V3 specification
- Supported application servers for WebSphere MQ Managed File Transfer
 - WebSphere Application Server V8.5
 - WebSphere Application Server V8.0
 - WebSphere Application Server V7.0 fix pack 7.0.0.17 (8)
- Supported databases for WebSphere MQ Managed File Transfer
 - DB2 Enterprise Server Edition V10.5
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V9.7.0.6
 - Oracle Database 12c Enterprise Edition Release 1
 - Oracle Database 11g Enterprise Edition Release 2
- Supported web browsers for WebSphere MQ Managed File Transfer web gateway administrative console and sample web application
 - Mozilla Firefox ESR24 or later
 - Internet Explorer 10 or later
- Prerequisites to run the WebSphere MQ Managed File Transfer protocol bridge agent - A standards-compliant FTP, FTPS, or SFTP server that uses a Windows style file system format
- Prerequisites to run an IBM Sterling Connect:Direct agent with WebSphere Managed File Transfer
 - Connect:Direct for Windows V4.5.01 (Build 16 QC18989 or later) server
 - Connect:Direct for Windows V4.4.01 (Build 11) server
- Prerequisites to run an IBM Sterling Connect:Direct node as a source or destination of a transfer through a WebSphere MQ Managed File Transfer Connect:Direct bridge agent
 - IBM Sterling Connect:Direct for Windows V4.5.01 server (Build 16 QC18989 or later)
 - IBM Sterling Connect:Direct for Windows V4.4.01 server (Build 11)
 - IBM Sterling Connect:Direct for Unix V4.0.0.0 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for Unix V3.8 server (with 04 March 2011 maintenance or later)
 - IBM Sterling Connect:Direct for z/OS V5.0.00 server (with POST5000 APAR bucket)
 - IBM Sterling Connect:Direct for z/OS V4.8 server (with maintenance PTF PUT4802 or later)
 - IBM Sterling Connect:Direct for z/OS V4.7 server (with maintenance PTF PUT4702 or later)
 - IBM Sterling Connect:Direct for z/OS V4.6 server (with maintenance PTF PUT4603 or later)

For details about supported platforms, refer to the IBM Sterling Connect:Direct website at

<http://www-01.ibm.com/software/commerce/managed-file-transfer/products/connect-direct/>

- Compilers
 - Micro Focus Server Express 5.1

- Microsoft Visual Studio 2010
- Microsoft Visual Studio 2012
- Java Technology
 - IBM Runtime Environment, Java Technology Edition V7

WebSphere MQ Advanced Message Security policies are supported for Java applications using bindings on any supported Java run time. Support for Java applications using client connections is limited to those running under a supported Java run time.

- Network communication
 - IBM Communications Server for Windows V6.4
 - 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 with operating system
- Resource managers (when WebSphere MQ is the transaction manager)
 - DB2 Advanced Enterprise Server Edition V9.7.06
 - DB2 Enterprise Server Edition V9.7.0.6
 - DB2 Advanced Enterprise Server Edition V10.1
 - DB2 Enterprise Server Edition V10.1
 - DB2 Advanced Enterprise Server Edition V10.5
 - DB2 Enterprise Server Edition V10.5
 - IBM Informix Server V11.70
 - IBM Informix Server V12.10
 - Oracle Database 11g Enterprise Edition Release 2
 - Oracle Database 12c Enterprise Edition Release 1
 - Sybase Adaptive Server Enterprise 15.0
 - Sybase Adaptive Server Enterprise 15.5
- Transaction manager
 - Oracle Tuxedo 11g R1
 - IBM TXSeries for Multiplatforms V7.1
 - IBM TXSeries for Multiplatforms V8.1
 - IBM WebSphere Application Server V7.0
 - IBM WebSphere Application Server V8.0
 - IBM WebSphere Application Server V8.5.5
- Virtualization
 - VMware ESXi V5.0 and V5.1

(7) Advanced Message Security is not fully supported in fully managed .NET applications.

(8) Latest application server version supported for the WebSphere Managed File Transfer Web Gateway component.

For IBM i: (9)

- Operating system
 - IBM i 7.1
- Application servers

- All application servers that support the Java EE 7.0 specification
- LDAP servers
 - All LDAP servers that support the LDAP V2 or V3 specification
- Prerequisites to run the WebSphere MQ Managed File Transfer protocol bridge agent - A standards-compliant FTP server that uses a UNIX or Windows style file system format
- Compilers
 - Rational® development Studio for IBM i V7.1
- Java Technology
 - IBM Runtime Environment, Java Technology Edition V7 (32-bit & 64-bit)

WebSphere MQ Advanced Message Security policies are supported for Java applications using bindings on any supported Java run time. Support for Java applications using client connections is limited to those running under a supported Java run time.

- Network communication
 - TCP/IP: IPv4 and IPv6 provided by the operating system.
 - SNA LU6.2: Provided with the operating system
- Resource managers (when WebSphere MQ is the transaction manager)
 - DB2 for i V7.1
 - IBM i V7.1
- Transaction manager
 - IBM CICS Transaction Server for IBM i V7.1
 - Oracle Tuxedo 11g R1
 - IBM TXSeries for Multiplatforms V7.1
 - IBM TXSeries for Multiplatforms V8.1
 - IBM WebSphere Application Server V7.0
 - IBM WebSphere Application Server V8.0
 - IBM WebSphere Application Server V8.5.5
- Virtualization
 - IBM PowerVM Hypervisor (LPAR, DPAR, Micro-Partition) any supported version

(9) WebSphere MQ Telemetry does not run on this platform.

For the WebSphere MQ Telemetry operating environment:

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

For AIX :

Operating system

- AIX 6.1 TL8 POWER system
- AIX 7.1 TL2 POWER system

For Linux :

Operating system

- Red Hat Enterprise Linux (RHEL) Server 6 Server Update 3 x86-64 and System z
- SUSE Linux Enterprise Server (SLES) 11 SP2 x86-64 and System z

For Windows :

Operating system

- Windows Server 2008 R2 SP1 Standard Edition, Datacenter Edition, Enterprise Edition (x86-64)
- Windows Server 2012 Standard Edition, Datacenter Edition (x86-64)
- Windows Server 2012 R2 Standard Edition, Datacenter Edition (x86-64)
- Windows 7 SP1 Ultimate, Professional, Enterprise (x86-64)
- Windows 8 Standard, Professional, Enterprise (x86-64)
- Windows 8.1 Standard, Professional, Enterprise (x86-64)

The MQ Telemetry Daemon, C, and Java clients can be obtained from

<http://www.ibm.com/software/products/en/wmq-telemetry/>

For the most current and up to date software requirements for IBM MQ V8.0, available on the product availability date, visit

<http://www.ibm.com/support/docview.wss?uid=swg27006467>

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 V8.0 queue managers and clients interoperate with queue managers and clients from current and previous levels of WebSphere MQ or MQSeries® products. The WebSphere MQ Explorer runs on the Linux on x86-64 and Windows platforms. The MQ Explorer supplied with WebSphere MQ V8.0 can be used on a client connection to connect to any supported level of WebSphere MQ on any platform. WebSphere MQ Managed File Transfer supports file transfer to and from server and client installations at any level of WebSphere MQ File Transfer Edition.

Limitations

For additional information, refer to usage restrictions 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>

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement, at no additional charge. Read about the Electronic Support portfolio of tools

<http://ibm.com/electronicssupport>

Access the IBM Support Portal

<http://ibm.com/support>

Access the online Service Request tool

<http://ibm.com/support/servicerequest>

Planning information

Deprecated function in IBM WebSphere MQ V8.0:

- IBM does not expect that any additional enhancements will be applied to the IBM MQ Managed File Transfer Web Gateway function in IBM MQ and IBM MQ Managed File Transfer.
- IBM does not expect that any additional enhancements will be applied to the Service Definition Wizard in MQ Explorer.
- IBM does not expect that any additional enhancements will be applied to the WebSphere MQ Bridge for HTTP function. The WebSockets support provided by the IBM Messaging Client for JavaScript™ in the MA9B Mobile and Device Messaging Client Pack should be used as an alternative. This can be found at https://www.ibm.com/developerworks/community/blogs/messaging/entry/mobile_and_device_messaging_client_pack10
- IBM does not expect that any additional enhancements will be applied to the MQ transport for SOAP .NET Framework 1 and 2 function. The WebSphere MQ custom channel for Microsoft Windows Communication Foundation (WCF) should be used as an alternative.
- IBM does not expect that any additional enhancements will be applied to the MQ transport for SOAP Java client and listener for Axis 1.4 using JAX-RPC function. The WebSphere MQ transport SOAP Java client for Axis 2 using JAX-WS should be used as an alternative

Packaging

IBM WebSphere MQ V8.0 is distributed via electronic download and a single physical media pack consisting of multiple DVDs and CD-ROMs. This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which 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.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based Software Services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

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

Ordering information

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

<http://www.ibm.com/partnerworld/wps/bplocator/>

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

Product group: IBM MQSeries
 Product Identifier Description (PID)
 WebSphere MQ 5724-H72

Product category: MQ Series

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 Advanced	
WebSphere MQ Advanced Per Processor Value Unit (PVU) License and SW S&S 12 Months	D14DJLL
WebSphere MQ Advanced	

Per Processor Value Unit (PVU) Annual SW S&S Renewal	E0JD0LL
WebSphere MQ Advanced Per Processor Value Unit (PVU) SW S&S Reinstatement 12 Months	D14DKLL
WebSphere MQ Advanced Idle Standby Per Processor Value Unit (PVU) License and SW S&S 12 Months	D14DSLL
WebSphere MQ Advanced Idle Standby Per Processor Value Unit (PVU) Annual SW S&S Renewal	E0JD2LL
WebSphere MQ Advanced Idle Standby Per Processor Value Unit (PVU) SW S&S Reinstatement 12 Months	D14DTLL
WebSphere MQ Advanced for Developers Per Authorized User Single Install License and SW S&S 12 Months	D14EALL
WebSphere MQ Advanced for Developers Per Authorized User Single Install Annual SW S&S Renewal	E0JD7LL
WebSphere MQ Advanced for Developers Per Authorized User Single Install SW S&S Reinstatement 12 Months	D14EBLL
WebSphere MQ Telemetry	
WebSphere MQ Telemetry per Install Lic +SW S&S 12 mo	D0PJTLL
WebSphere MQ Telemetry per Install Annual S&S Rnw1	E0DRHLL
WebSphere MQ Telemetry per Install SW S&S Reinstat 12mo	D0PJULL
WebSphere MQ Advanced Message Security Component	
WebSphere MQ Advanced Message Security Component PVU Lic + SW S&S 12 Mo	D0PLFLL
WebSphere MQ Advanced Message Security Component PVU Annual SW S&S Rnw1	E0DS8LL
WebSphere MQ Advanced Message Security Component PVU S&S Reinstat 12 Mo	D0PLGLL
WS MQ AMS Component Idle Standby per 10 PVUs Lic + SW S&S 12 Mo	D0PKZLL
WS MQ AMS Component Idle Standby per 10 PVUs Annual SW S&S Rnw1	E0DS0LL
WS MQ AMS Component Idle Standby per 10 PVUs S&S Reinstat 12 Mo	D0PLOLL
WS MQ AMS Component Idle Stby 10 PVUs Lin Sy zE Bc Lic + SW S&S 12 Mo	D0PKWLL
WS MQ AMS Component Idle Stby 10 PVUs Lin Sy zE Bc Annual SW S&S Rnw1	E0DRZLL
WS MQ AMS Component Idle Stby 10 PVUs Lin Sy zE Bc S&S Reinstat 12 Mo	D0PKXLL
WebSphere MQ AMS Comp PVU Lin Sys z/zEnterprise Bc Lic + SW S&S 12 Mo	D0PLCLL
WebSphere MQ AMS Comp PVU Lin Sys z/zEnterprise Bc Annual SW S&S Rnw1	E0DS7LL
WebSphere MQ AMS Comp PVU Lin Sys z/zEnterprise Bc S&S Reinstat 12 Mo	D0PLDLL

WebSphere Managed File Transfer Component	
WebSphere Managed File Transfer Service PVU Lic + SW S&S 12 Mo	D14CXLL
WebSphere Managed File Transfer Service PVU Annual SW S&S Rnw1	E0JCRL
WebSphere Managed File Transfer Service PVU S&S Reinstate 12 Mo	D14CYLL
WS Managed File Transfer Service Idle St 10 PVUs Lic + SW S&S 12 Mo	D14DDL
WS Managed File Transfer Service Idle St 10 PVUs Annual SW S&S Rnw1	E0JCXLL
WS Managed File Transfer Service Idle St 10 PVUs S&S Reinstate 12 Mo	D14DELL
WebSphere Managed File Transfer Agent Per Simultaneous Session License and SW S&S 12 Months	D14EGLL
WebSphere Managed File Transfer Agent Per Simultaneous Session Annual SW S&S Renewal	E0JDALL
WebSphere Managed File Transfer Agent Per Simultaneous Session SW S&S Reinstatement 12 Months	D14EHL
WebSphere Managed File Transfer Managed Endpoint Per Install License and SW S&S 12 Months	D14DFLL
WebSphere Managed File Transfer Managed Endpoint Per Install Annual SW S&S Renewal	E0JCYLL
WebSphere Managed File Transfer Managed Endpoint Per Install SW S&S Reinstatement 12 Months	D14DGLL

Passport Advantage trade-up

You must have previously acquired licenses for the following precursor products to be eligible to acquire equivalent licenses of the trade-up products.

Precursor product	Trade-up product	Trade-up part number
WebS MQ AMS PVU	WebSphere MQ AMS Component PVU Trdup Lic + SW S&S 12 Mo	D0PLHLL
WebS MQ AMS Idle Stby 10 PVUs	WebSphere MQ AMS Component Idle Stby 10 PVUs Trdup Lic + SW S&S 12 Mo	D0PL1LL
WebS MQ AMS Idle Stby 10 PVUs Sys zEN BC	WebS MQ AMS Comp IS 10 PVUs SzE Bc Trdup Lic + SW S&S 12 Mo	D0PKYLL
WebS MQ AMS PVU Sys zEN BC	WebS MQ AMS Comp PVU Sys zEN Bc Trdup Lic + SW S&S 12 Mo	D0PLELL
WebSphere MQ PVU License + SW S&S 12 Months	WebSphere MQ Advanced Processor Value Unit	D14DLLL
Sterling Connect	WebSphere MQ Advanced PVU	D14DMLL

Direct PVU License + SW S&S 12 Months	Processor Value Unit	
WebSphere MQ for zEnterprise® BladeCenter® Ext and Linux on System z PVU License + SW S&S 12 Months	WebSphere MQ Advanced for zEnterprise BladeCenter Extension and Linux on System z Processor Value Unit	D14DQLL
Sterling Connect Direct for zEnterprise BladeCenter Ext and Linux on System z PVU License + SW S&S 12 Months	WebSphere MQ Advanced for zEnterprise BladeCenter Extension and Linux on System z Processor Value Unit	D14DRLL
WebSphere MQ Idle Standby for zEnterprise BladeCenter Ext and Linux on System z PVU License + SW S&S 12 Months	WebSphere MQ Advanced Idle Standby for zEnterprise BladeCenter Extension and Linux on System z Processor Value Unit	D14DXLL
WebSphere MQ Idle Standby PVU License + SW S&S 12 Months	WebSphere MQ Advanced Idle Standby Processor Value Unit	D14DULL

Consult your IBM representative if you have any questions.

Passport Advantage customer: Media pack entitlement details

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

WebSphere MQ for Multiplatforms

Entitled maintenance offerings description	Media packs description	Part number
WebSphere MQ Processor Value Unit	WebSphere MQ v8.0 for Multiplatforms Multilingual Media Pack	BA17VML
WebSphere MQ Linux zSeries Processor Value Unit	WebSphere MQ v8.0 for Multiplatforms Multilingual Media Pack	BA17VML

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	D55V4LL

Mo	
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
WebSphere Managed File Transfer	
WebSphere Managed File Transfer Service for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z License and SW S&S 12 Months	
	D14CZLL
WebSphere Managed File Transfer Service for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z Annual SW S&S Renewal	
	E0JCSLL
WebSphere Managed File Transfer Service for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z SW S&S Reinstatement 12 Months	
	D14D0LL
WebSphere Managed File Transfer Service Idle Standby for zEnterprise BladeCenter Extension and Linux on System z Per 10 Processor Value Units (PVUs) Linux on System z License and SW S&S 12 Months	
	D14DBLL
WebSphere Managed File Transfer Service Idle Standby for zEnterprise BladeCenter Extension and Linux on System z Per 10 Processor Value Units (PVUs) Linux on System z Annual SW S&S Renewal	
	E0JCWLL
WebSphere Managed File Transfer Service Idle Standby for zEnterprise BladeCenter Extension and Linux on System z Per 10 Processor Value Units (PVUs) Linux on System z SW S&S Reinstatement 12 Months	
	D14DCLL
WebSphere Managed File Transfer Managed Endpoint for zEnterprise BladeCenter Extension and Linux on System z Per Install Linux on System z License and SW S&S 12 Months	
	D14DHLL
WebSphere Managed File Transfer Managed Endpoint for zEnterprise BladeCenter Extension and Linux on System z Per Install Linux on System z Annual SW S&S Renewal	
	E0JCZLL
WebSphere Managed File Transfer Managed Endpoint for zEnterprise BladeCenter Extension and Linux on System z Per Install Linux on System z SW S&S Reinstatement 12 Months	
	D14DILL
WebSphere MQ Advanced for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z License and SW S&S 12 Months	
	D14DNLL
WebSphere MQ Advanced for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z Annual SW S&S Renewal	
	E0JD1LL
WebSphere MQ Advanced for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z SW S&S Reinstatement 12 Months	
	D14DPLL
WebSphere MQ Advanced Idle Standby for zEnterprise	

BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z License and SW S&S 12 Months	D14DVLL
WebSphere MQ Advanced Idle Standby for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z Annual SW S&S Renewal	E0JD3LL
WebSphere MQ Advanced Idle Standby for zEnterprise BladeCenter Extension and Linux on System z Per Processor Value Unit (PVU) Linux on System z SW S&S Reinstatement 12 Months	D14DWLL
WebSphere MQ Advanced for Developers for zEnterprise BladeCenter Extension and Linux on System z Per Authorized User Single Install Linux on System z License and SW S&S 12 Months	D14E8LL
WebSphere MQ Advanced for Developers for zEnterprise BladeCenter Extension and Linux on System z Per Authorized User Single Install Linux on System z Annual SW S&S Renewal	E0JD6LL
WebSphere MQ Advanced for Developers for zEnterprise BladeCenter Extension and Linux on System z Per Authorized User Single Install Linux on System z SW S&S Reinstatement 12 Months	D14E9LL
WebSphere Managed File Transfer Agent for zEnterprise BladeCenter Extension and Linux on System z Per Simultaneous Session Linux on System z License and SW S&S 12 Months	D14EILL
WebSphere Managed File Transfer Agent for zEnterprise BladeCenter Extension and Linux on System z Per Simultaneous Session Linux on System z Annual SW S&S Renewal	E0JDBLL
WebSphere Managed File Transfer Agent for zEnterprise BladeCenter Extension and Linux on System z Per Simultaneous Session Linux on System z SW S&S Reinstatement 12 Months	D14EJLL

On/Off Capacity on Demand (CoD)

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

Charge metric

Program name	Part number or PID number	Charge metric
WebSphere MQ	5724-H72	per Processor Value Unit
WebSphere MQ	5724-H72	Per Processor Value Unit PVU for Linux on Sys z
WebSphere MQ	5724-H72	Processor-Day
WebSphere MQ	5724-H72	Per Install
WebSphere MQ	5724-H72	Client

Install

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

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.
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Processor Value Unit (PVU) sub-capacity licensing

This software product is eligible for sub-capacity licensing. Customers must accept the terms of the IBM International Passport Advantage Agreement Attachment for Sub-Capacity Licensing Terms (Attachment), and must obtain PVU Proofs of Entitlement (PoEs) for the maximum processor core capacity available to an eligible sub-capacity product when deployed in an eligible virtualization environment. This is also referred to as sub-capacity or virtualization capacity licensing.

Customers must use the IBM License Metric Tool unless they meet the exceptions described in the Attachment.

For information regarding PVU sub-capacity licensing, including terms and IBM License Metric Tool ordering information, visit

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- IBM WebSphere MQ Telemetry Client V8.0
- IBM WebSphere MQ Advanced Message Security Component V8.0
- IBM WebSphere MQ Idle Standby V8.0
- IBM WebSphere MQ Advanced Message Security Component Idle Standby V8.0

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- IBM WebSphere MQ Advanced V8.0
- IBM WebSphere MQ Advanced Idle Standby V8.0
- IBM WebSphere MQ Advanced for Developers V8.0

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- IBM WebSphere Managed File Transfer Service V8.0
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- IBM WebSphere Managed File Transfer Managed Endpoint Sessions V8.0

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

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Limited warranty

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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

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

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

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- Linux running in an LPAR under AIX 5L V5.1, under 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:

- Install and use, when available, IBM's license use management program, which installs with eligible IBM programs.
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- Determine if the use of sub-capacity pricing terms results in a reduced requirement for entitlements; you can reallocate the entitlement difference by distributing entitlements across a larger or different set of systems, or reserve them for future growth. There will be no refunds for these freed up entitlements. Subscription, Software Maintenance and support volumes, and entitlements for existing contracts will continue at the same levels as the acquired licenses.

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To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Amendment for iSeries® and pSeries Temporary Capacity On Demand - Software (Z125-6907), must be signed prior to use.

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