



IBM WebSphere MQ Hypervisor for AIX speeds adoption of virtualization and cloud messaging in IBM PowerVM environments

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At a glance

WebSphere® MQ Hypervisor for AIX® delivers the following capabilities

- Provides WebSphere MQ Hypervisor functionality on IBM® AIX in IBM PowerVM™ environments
- Optimizes WebSphere MQ for PowerVM virtualized environments, enabling higher hardware utilization, while allowing you to spend less time on installation and configuration, and more time on strategic initiatives
- Includes and manages installation and deployment of WebSphere MQ V7.0.1 and AIX V6.1 (customer AIX license required)
- Deploys through IBM Workload Deployer

Overview

WebSphere MQ Hypervisor for AIX supports deployment of WebSphere MQ for AIX virtual images into PowerVM environments. It includes WebSphere MQ V7.0.1 and the IBM AIX operating system for use with PowerVM environments. This offering can be dispensed to easily deploy and manage messaging solutions in a private cloud and can help reduce installation and configuration time to rapidly deploy MQ messaging solutions.

WebSphere MQ is the market-leading, messaging-oriented middleware product that delivers a reliable, proven messaging backbone for 10,000 organizations of various sizes, across industries throughout the world.

WebSphere MQ is already available in a number of configurations, and the WebSphere MQ Hypervisor for AIX offering now supports deployment of WebSphere MQ for AIX virtual images into PowerVM environments.

Using WebSphere MQ Hypervisor enables better utilization of hardware and faster response to demands for newly deployed systems. This can help to reduce the costs of both hardware and software operation and maintenance costs. By deploying virtual images, businesses can also ensure that systems are built with a known, stable, and tested configuration, reducing the potential for errors and ensuring rapid deployment of a working system, whether for development, test, or production.

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

Key prerequisites

Supported environments

- PowerVM
- IBM AIX (image included)
- IBM Workload Deployer

Planned availability date

Electronic download only: November 18, 2011

Description

WebSphere MQ is the market-leading, message-oriented middleware product that delivers a reliable, proven, messaging backbone for 10,000 organizations of various sizes, across industries throughout the world.

WebSphere MQ is already available in a number of configurations and the WebSphere MQ Hypervisor V7.0.1 for AIX offering now supports deployment of WebSphere MQ for AIX virtual images into PowerVM environments.

Using WebSphere MQ Hypervisor enables better utilization of hardware and faster response to demands for newly deployed systems. This can help to reduce the costs of both hardware and software operation and maintenance costs. By deploying virtual images, businesses can also ensure that systems are built with a known, stable, and tested configuration, reducing the potential for errors and ensuring rapid deployment of a working system, whether for development, test, or production.

Accessibility by people with disabilities

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

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

Section 508 of the US Rehabilitation Act

WebSphere MQ Hypervisor is capable as of November 18, 2011, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Product positioning

WebSphere MQ Hypervisor for AIX is positioned as a member of the MQ family of messaging transports, which provides a messaging backbone with a range of capabilities for the enterprise, both inter-company and intra-company. The objective of the MQ family is to offer a comprehensive suite of seamless, interconnected transport protocols and quality-of-service levels:

- WebSphere MQ provides widely used programming interfaces to connect core back-end applications with virtually any front-end device or application, and integrates any applications or services 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.

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

- 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 modelling.
- 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 MQ Hypervisor for AIX enables a rapid deployment of WebSphere MQ for AIX onto a virtual machine to provide a quickly available and tested environment without additional effort.

Reference information

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

Program number

Program Name	Program number
webSphere MQ Hypervisor for AIX V7.0.1	5725-F22

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

Online product documentation is integrated within the product.

The publication, *WebSphere MQ Hypervisor V7.0.1 for AIX* (SC34-7264-00) is available in pdf format to download from the Publications Center.

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.

Technical information

Specified operating environment

Hardware requirements

- Any hardware that is explicitly compatible and fully capable of running PowerVM, AIX, WebSphere MQ V7.0.1, and all corresponding supporting software.
- IBM Workload Deployer, with minimum firmware level V3.1. Refer to Hardware Announcement [111-202](#), dated October 4, 2011.

For the hardware and software requirements for WebSphere MQ, visit

<http://www.ibm.com/software/integration/wmq/requirements/index.html>

Software requirements

PowerVM must be installed and configured on the system targeted for deployment of WebSphere MQ Hypervisor for AIX.

The AIX V6.1 operating system is included in the WebSphere MQ Hypervisor for AIX. However, customers must purchase the license for AIX separately as part of their Power® System hardware and PowerVM setup. All other required software is provided with WebSphere MQ Hypervisor for AIX.

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.

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>

Performance considerations

Performance depends on the complexity of the specific environment, volume of data traffic, and the data object size. The stated performance numbers are based on measurements using standard IBM benchmarks in a controlled environment. The actual throughput that any application will experience may vary, depending upon considerations such as message size, transmission rate, hardware platform, and network configuration. Therefore, no assurance can be given that an individual application will achieve the throughput stated here.

Customers should conduct their own testing. For more detailed performance information, consult your IBM representative.

Planning information

Customer responsibilities

Customers must purchase the license for AIX separately as part of their Power System hardware and PowerVM setup.

IBM Services are available to assist in the installation, design, implementation, and maintenance of WebSphere MQ Hypervisor. The following skills are required for implementation of WebSphere MQ Hypervisor:

- Networking
- C, Java, or .NET programming
- Thorough understanding of WebSphere MQ

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

WebSphere MQ Hypervisor for AIX is available for electronic download only. The single package contains:

- WebSphere MQ Hypervisor for AIX V7.0.1 for IBM Workload Deployer
- WebSphere MQ V7.0.1 for multiplatforms (multiple files)
- WebSphere MQ Hypervisor for AIX V7.0.1 Quick Start Guide
- WebSphere MQ Hypervisor for AIX V7.0.1 Documentation guide

Security, auditability, and control

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

Product group: WebSphere

Product Identifier	Description	(PID)
IBM WebSphere MQ Hypervisor		5725-F22

Product category: Application Integration Middleware Other

Charge metric

IBM WebSphere MQ Hypervisor

Program name	PID number	Charge unit description
WebSphere MQ Hypervisor V7.0.1 for AIX	5725-F22	Processor value unit

Charge metrics definitions

Processor Value Unit

A Processor Value Unit (PVU) is a unit of measure used to differentiate licensing of software on distributed processor technologies (defined by Processor Vendor, Brand, Type and Model Number). IBM continues to define a processor, for purposes of PVU-based licensing, to be each processor core on a chip (socket). Each software Program has a unique price per PVU. For a complete definition of PVU licensing, visit

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

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.

Product description	Product ID
WebSphere MQ Hypervisor for AIX V7.0.1	5725-F22

Passport Advantage

Here is the complete listing of part numbers for WebSphere MQ Hypervisor for AIX (5725-F22).

Description	Part number
WebSphere MQ Hypervisor for AIX Per processor Value Unit	
License + Software S&S 12 mo	D0LEXLL
Annual Software S&S Renewal 12 mo	E0CUXLL
Software S&S reinstatement 12 mo	D0LEYLL

IBM WebSphere MQ Hypervisor for AIX includes entitlement for WebSphere MQ, providing flexibility in adoption of virtualized environments. This includes authorization to use any combination of the WebSphere MQ Hypervisor and WebSphere MQ programs up to the level of use specified in your proof of entitlement for WebSphere MQ Hypervisor for AIX.

Passport Advantage trade up

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade up part numbers.

Precursor product	Trade-up product	Trade-up part number
WebSphere MQ PVU	WebSphere MQ Hypervisor for AIX Per processor Value Unit License + SW S&S 12 mo	D0LEZLL

Consult your IBM representative if you have any questions.

Terms and conditions

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

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IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

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

License Information form number

The program's License Information form, L-AFOS-8KBKHQ, 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

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

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

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Program technical support

Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is

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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.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Usage restriction

Yes. For 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>

Software Subscription and Support applies

Yes. 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 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 with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

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

Other support

Passport Advantage

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Prices

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

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