IBM WebSphere MQ Hypervisor Edition V7.5 for Red Hat Enterprise Linux Server offers cloud messaging on IBM PureApplication System

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At a glance

WebSphere® MQ Hypervisor Edition V7.5 for Red Hat Enterprise Linux™ Server delivers the following capabilities:

- Provides WebSphere MQ V7.5 Hypervisor deployed functionality on Red Hat Enterprise Linux Server VMWare ESX environments and in IBM® PureApplication™ System.
- Optimizes WebSphere MQ V7.5 for deployment into 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 V7.5 and Red Hat Enterprise Linux Server.
- Deploys through IBM Workload Deployer and into IBM PureApplication System.

Overview

WebSphere MQ Hypervisor Edition V7.5 supports deployment of WebSphere MQ V7.5 virtual images into virtualized environments. It includes WebSphere MQ V7.5 and the Red Hat Enterprise Linux Server operating system for use with VMWare ESX environments as provisioned by IBM Workload Deployer, and as a System Pattern within IBM PureApplication System. This offering can be distributed to easily deploy and manage messaging solutions in a private cloud. It 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. The WebSphere MQ Hypervisor Edition V7.5 offering now supports deployment of WebSphere MQ V7.5 virtual images into VMWare ESX environments.

Using WebSphere MQ Hypervisor Edition 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.

WebSphere MQ V7.5 includes a number of additional capabilities to enhance the messaging infrastructure, which is available with separate entitlement. These include WebSphere MQ Managed File Transfer, which provides reliable, secure movement of files over WebSphere MQ. Also available is WebSphere MQ Advanced Message Security for end-to-end message encryption and WebSphere MQ Telemetry for connectivity to mobile devices and remotely connected physical assets. If additional entitlement is acquired, then the capability can be installed into the deployed WebSphere MQ image and then recaptured for future deployment as a single provisioned image.

For ordering, contact your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255). Reference: YE001

Key prerequisites

For details, refer to the Hardware requirements and Software requirements sections.

Planned availability date

August 21, 2012: Electronic download only

Accessibility by people with disabilities

WebSphere MQ Hypervisor Edition V7.5 is capable as of August 21, 2012, 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

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Product positioning

WebSphere MQ Hypervisor Edition V7.5 for Red Hat Enterprise Linux Server 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 Server, the core of application integration, is the reliable, proven messaging backbone for service-oriented architecture (SOA) connectivity, as the universal, multipurpose data transport. It connects virtually any commercial IT system, with support for more than 80 platform configurations. WebSphere MQ includes a choice of APIs, and interoperates with the JMS messaging services embedded in WebSphere Application Server, extending its reach to non-JEE[1]

environments. WebSphere MQ is a flexible and scalable connectivity solution that can grow incrementally with changing business needs.

- WebSphere MQ can be enhanced through additional capabilities, delivered with the product, providing Managed File Transfer and end-to-end Message encryption and security, and also access to mobile and remotely connected physical devices.

    – WebSphere MQ Managed File Transfer 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. This is available with additional entitlement and can be added to the deployed image and then redeployed as a single instance.

    – WebSphere MQ Advanced Message Security expands the industry-standard security offered by WebSphere MQ with end-to-end data protection for applications and can be deployed to existing production environments without changes to existing WebSphere MQ applications. This is available with additional entitlement and can be added to the deployed image and then redeployed as a single instance.

    – WebSphere MQ Telemetry extends WebSphere MQ through clients that use a standard lightweight connectivity protocol, Message Queue Telemetry Transport (MQTT). This enables connected physical devices and mobile devices, which may be restricted by bandwidth and power consumption, to exchange information with WebSphere MQ. This capability is deployed as part of the WebSphere MQ image, but requires separate entitlement if used.

- WebSphere MQ for z/OS® exploits the platform-specific capabilities of the IBM 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.

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 Enterprise Service Bus (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 MQ Hypervisor Edition V7.5 for Red Hat Enterprise Linux Server enables a rapid deployment of WebSphere MQ V7.5 onto a virtual machine to provide a quickly available and tested environment without additional effort.

[1] Java™ Extended Edition

Reference information

For information on WebSphere MQ V7.5, refer to Software Announcement 212-091, dated April 24, 2012.

Program number

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Program                  Program
number       VRM         name

5725-C79     7.5.0       IBM WebSphere MQ Hypervisor Edition for
                         Red Hat Enterprise Linux Server
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Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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Publications

Online product documentation is integrated within the product.

The IBM Publications Center

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

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WebSphere MQ V7.5 documentation is provided 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 V7.5 installation program. Any new or updated Version 7.5 documentation can then be added to that locally installed information center.

The online version of the WebSphere MQ V7.5 information center is available

http://publib.boulder.ibm.com/infocenter/wmqv7/v7r5/index.jsp

Portions of the documentation for WebSphere MQ V7.5 will be translated and available within 30 days of product availability.

Technical information

Specified operating environment

Hardware requirements

Supported environments include:

- x86 server supported by VMware ESX V3.5, V4.0, or V4.1
- IBM Workload Deployer V3.1
- IBM PureApplication System

Software requirements

VMware ESX V3.5, V4.0, or V4.1

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

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

Planning information

Customer responsibilities

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 Edition:

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

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Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

http://www.ibm.com/support

Packaging

WebSphere MQ Hypervisor Edition V7.5 for Red Hat Enterprise Linux Server is available for electronic download only. 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.

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

Ordering information

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WebSphere MQ Hypervisor Edition          IBM MQSeries®    MQSeries

Program name                             PID              Charge unit
                                         number           description

WebSphere MQ Hypervisor Edition          5725-C79         Per PVU
 for Red Hat Linux Enterprise Server

Product group: IBM MQSeries
   Product Identifier Description (PID)
   WebSphere MQ Hypervisor Edition       5725-C79

Product category: MQ Series
```

Charge metric

```
Program name                  PID number    Charge metric

WebSphere MQ Hypervisor       5725-C79      Processor Value Unit
 Edition for Red Hat Linux
 Enterprise Server
```

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[2] 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

2 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.

Passport Advantage

Program name/Description	Part number
WebSphere MQ Hypervisor Edition	
WebSphere MQ Hypervisor Edition for Red Hat Enterprise Linux Server Processor Value Unit License + SW Subscription & Support 12 Months	D0IV0LL
WebSphere MQ Hypervisor Edition for Red Hat Enterprise Linux Server Processor Value Unit License SW Subscription & Support Renewal	E0BTSLL
WebSphere MQ Hypervisor Edition for Red Hat Enterprise Linux Server Processor Value Unit License SW Subscription & Support Reinstatement 12 Months	D0IV1LL

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
IBM WebSphere MQ PVU	IBM WebSphere MQ Hypervisor Edition for Red Hat Enterprise Linux Server PVU	D0IVSLL

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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License Information reference number

Program Name	Program Number	License ID
WebSphere MQ Hypervisor Edition V7.5 for Red Hat Enterprise Linux Server	5725-C79	L-APIG-8UJEXT

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   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.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

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

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

IBM supports each WebSphere MQ Hypervisor Edition for the lifecycle of the corresponding WebSphere MQ product version. All WebSphere MQ Hypervisor Editions will have the same end of support date as the WebSphere MQ product.

This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM , including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

WebSphere MQ Hypervisor Edition V7.5 on Red Hat Enterprise Linux Server

IBM will provide support for the Red Hat Enterprise Linux Server component included in the WebSphere MQ Hypervisor Edition under the following conditions:

- The Red Hat Enterprise Linux Server component is used in conjunction with the WebSphere MQ Hypervisor Edition.
- The version of Red Hat Enterprise Linux Server is supported by Red Hat.

IBM may ask customers to move up to the latest Red Hat Enterprise Linux Server support level. IBM , in turn, will upgrade the version of the underlying Red Hat Enterprise Linux Server during the WebSphere MQ Hypervisor Edition support lifecycle to maintain the operating system support. Customers with active Passport Advantage subscription and support are entitled to this upgrade.

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

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Entitlement

Purchasing license entitlements to use WebSphere MQ Hypervisor Edition for Red Hat Enterprise Linux Server allows customers to deploy either the WebSphere MQ server component or WebSphere MQ Hypervisor Edition for Red Hat Enterprise Linux Server up to their license entitlement. This enables customers to choose how to deploy WebSphere MQ into their selected deployment environment and to make changes to reflect their needs over time.

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

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IBM Operational Support Services - SoftwareXcel

No

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Passport Advantage

System i Software Maintenance applies

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Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

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