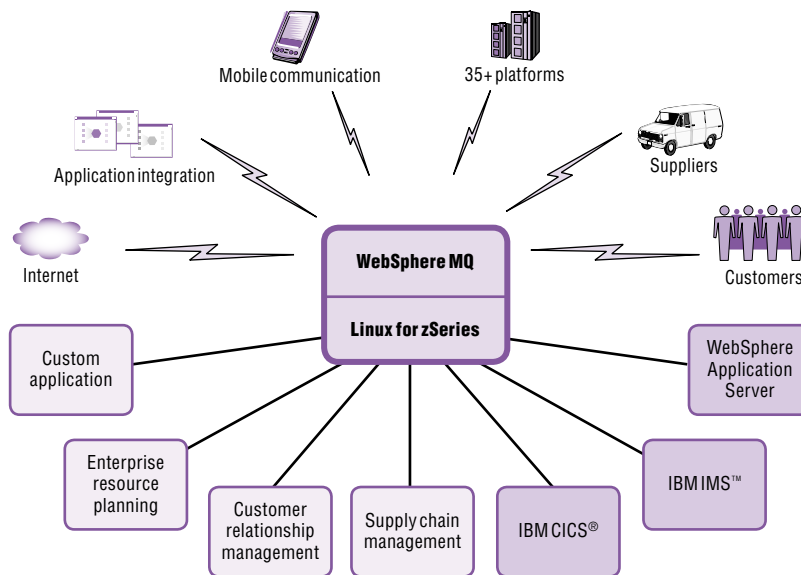**IBM**

WebSphere® software

WebSphere MQ for Linux for zSeries, Version 5.3

Highlights

■ *Transports data between more than 35 WebSphere MQ and MQSeries platforms, allowing encryption if required*

■ *Supports clusters of queue managers to simplify adminis-tration, workload balancing and communication failover*

■ *Enables participation in publish and subscribe as part of a WebSphere MQ publish and subscribe network*

■ *Provides two high-level-language APIs: MQ API (MQI) and JMS*

In today's fast-paced business environment, you need to use your skills to handle key business require-ments instead of wrestling with underlying network complexities. IBM WebSphere® MQ messaging products enable application integration and once-only delivery of important messages. They deal with communica-tion protocols, as well as dynamically distribute workload across available resources. And they can handle recov-ery after system problems and help make programs portable. Offloading these time-consuming tasks to reliable WebSphere MQ application integration software frees you to complete work that is critical to your organization.

WebSphere MQ for Linux for zSeries, Version 5.3 enables business applications to exchange information across different platforms.

ON DEMAND BUSINESS™

A common API for simpler integration

WebSphere MQ provides a common, Message Queue Interface (MQI) that enables application integration and makes programs portable. It helps business applications exchange information—sending and receiving data as messages—across different platforms. A key feature of WebSphere MQ is time-independent processing—messages are stored reliably for later delivery, even if one of the recipients is temporarily unavailable. Using WebSphere MQ to send and receive messages allows your Linux® for zSeries™ system to integrate applications on diverse platforms, enabling participation in business process integration. You can further tailor your WebSphere MQ installation by downloading many official product extensions from the Web, at no charge.

WebSphere MQ for Linux for zSeries, Version 5.3

IBM WebSphere MQ for Linux for zSeries, Version 5.3 provides sophisticated security features, including Secure Sockets Layer (SSL) support, the Internet standard for secure communication. There are enhanced features for performance—especially for Java™ Message Service (JMS), system scalability and reliability—which are particularly useful to clustered systems that can share workload. It is now possible for programmers to use API exits to allow monitoring or implementing of local standards.

IBM WebSphere MQ for Linux for zSeries, Version 5.3 at a glance

Hardware requirements

System

- IBM S/390® or IBM @server™ zSeries processor, or equivalent compatible, fully capable of running the specified operating system, all the corresponding supporting software and any associated unmodified applications

Connectivity

- Communication hardware supporting TCP/IP

Software requirements

Operating environment

- Any distribution running Kernel 2.4 with glibc, Version 2.2.4 or higher
- Red Hat Package Manager
- libstdc++, Version 6.2.2 (for C++ programming)

  Note: The Linux distribution which has been tested and is known to meet the prerequisite levels is SuSE Version 7.1. To run Java components such as the JMS or Java client, the distribution of Linux must support the IBM Java Runtime Environment (JRE).

SSL channel support

- libgcc-3.0 or libstdc++, Version 6.1.2

Connectivity

- TCP/IP supplied as part of operating system

Options

- External transaction processing managers
  - IBM WebSphere Application Server, Version 4.0
- Databases (server only) as a resource manager under WebSphere MQ coordination
  - IBM DB2® Universal Database™, Version 7.2
  - Oracle 9i

Supported languages and compilers

- MQI C and C++ libraries are provided for the gcc and g++, Version 2.95.3 compilers

WebSphere MQ for Linux for zSeries, Version 5.3 and JMS now support extended transactional clients, which operate as an XA resource manager, allowing unit-of-work coordination with databases, such as IBM DB2®, under the control of an external transaction coordinator. This priced extended transactional client function helps centralize system management and administration, enabling you to reduce operational costs and rationalize your networked resources. Existing WebSphere MQ for Linux for zSeries, Version 5.3 users can electronically download the extended transactional client function; new users can choose the feature upon installation.

WebSphere MQ for Linux for zSeries is priced on a per-processor basis.

WebSphere MQ messaging forms the key business integration layer of the WebSphere software platform for e-business.

IBM WebSphere MQ for Linux for zSeries, Version 5.3 at a glance (continued)

WebSphere MQ requirements for Java applications

WebSphere MQ classes for JMS (supplied in the product)
- To run WebSphere MQ for Java applications, you need the following:
  – WebSphere MQ as supplied in the product
  – Java 2 Software Development Kit or JRE for the server and/or client platforms
- To run publish and subscribe applications, you need one of the following:
  – IBM WebSphere MQ Integrator Broker, Version 2.1
  – IBM WebSphere MQ Event Broker, Version 2.1

Note: If a TCP/IP client connection is used, the application does not have to reside on the system hosting the WebSphere MQ server.

Programming and JREs
- IBM Developer Kit for Linux, Java Technology Edition, Version 1.3.1 (Some limitations apply to the Linux environment.)

*Note: For full provision of SSL authentication to enable WebSphere MQ Java and JMS applications to benefit from secure connection to the queue manager (authentication, message integrity, data encryption), a platform JRE at Version 1.4.0 is required. For details on IBM Developer Kits, visit **ibm.com**/developerworks/java.*

Clients
- Clients for this and other WebSphere MQ platforms included with this product

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Program information
- Program number: 5724-B41
- Part number: BA08TML
- Language features: multilingual
- Available as media packs or software download

WebSphere business integration portfolio

As the world's largest information technology company, IBM offers a wide range of middleware and operating systems for virtually every computing platform, to give you the right tools to be an e-business on demand. The IBM WebSphere business integration portfolio delivers market-leading middleware that allows you to unite applications, people and business processes so they can work as one. Built on open standards, like J2EE, XML and new Web services standards, this robust portfolio is endowed with reliability, scalability and security—the core strengths you've come to expect from IBM.

With a WebSphere business integration solution, your business managers can effectively model and simulate business processes—and refine those processes to increase efficiencies as needs arise. Your IT staff can quickly and easily integrate previously disparate systems within your existing infrastructure—and with new applications and systems. Your systems can connect seamlessly with your customers' and business partners' systems to deliver immediate, dynamic—and personalized—information. And monitor your processes from end to end to show an up-to-the-minute view of how your enterprise is performing, so you can manage business effectiveness and readily make improvements to help you gain better return on investment (ROI) and faster time to value.

For more information

IBM WebSphere MQ for Linux for zSeries, Version 5.3 is an integral middleware component of the WebSphere software platform for e-business. To learn more about the WebSphere MQ (formerly IBM MQSeries®) family of products and how WebSphere MQ for Linux for zSeries, Version 5.3 can help streamline the management of your e-business processes, visit:

ibm.com/webspheremq

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