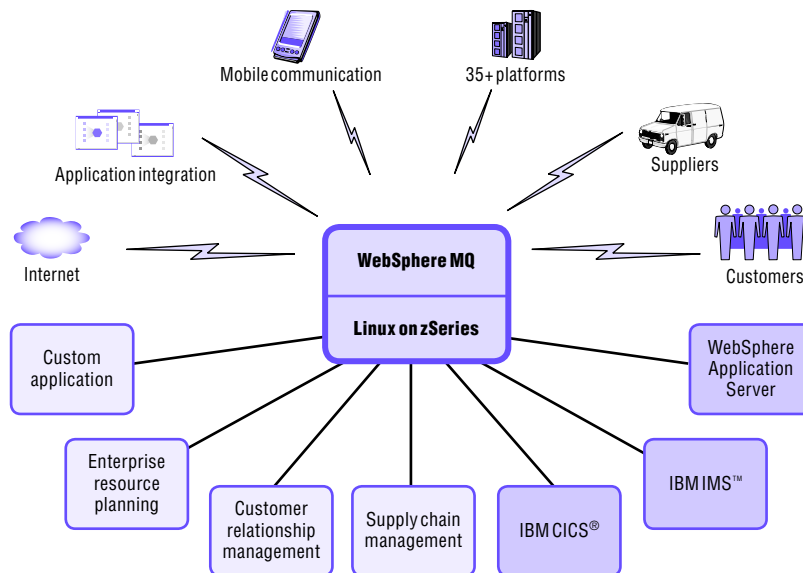**IBM**

WebSphere® software

WebSphere MQ for Linux on 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 administration, workload balancing and communication failover*

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

■ *Provides three high-level-language APIs: MQ API, JMS and downloadable Application Messaging Interface (AMI)*

In today's fast-paced business environment, you need to use your skills to handle key business requirements instead of wrestling with underlying network complexities. IBM WebSphere® MQ messaging products enable application integration and assure once-only delivery of important messages. They deal with communication protocols, as well as dynamically distribute workload across available resources. And they can handle recovery 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.

Mobile communication

35+ platforms

Application integration

Suppliers

Internet

WebSphere MQ

Linux on zSeries

Customers

Custom application

WebSphere Application Server

Enterprise resource planning

Customer relationship management

Supply chain management

IBM CICS®

IBM IMS™

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

A common API for simpler integration

WebSphere MQ provides a common, multiplatform application programming interface (MQ API) 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® on 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 on zSeries, Version 5.3

IBM WebSphere MQ for Linux on zSeries, Version 5.3 uses sophisticated security using Secure Sockets Layer (SSL), 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 for clustering of systems that can share workload. It is now possible for programmers to use API exits to allow monitoring or for local standards to be implemented. WebSphere MQ for Linux on zSeries, Version 5.3 maintains compatibility with the previous release — IBM MQSeries® for Linux for zSeries, Version 5.2.

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

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

Hardware requirements	
System	• IBM S/390® or IBM @server zSeries processor, or equivalent compatible and fully capable of running the specified operating system, all the corresponding supporting software shown below and any associated unmodified applications
Connectivity	• Communication hardware supporting TCP/IP

Software requirements	
Operating environment	• Any distribution running Kernel 2.4 with glibc, Version 2.1 or higher • Red Hat Package Manager • libstdc++, Version 2.9 (for C++ programming)

Note: The Linux distribution which has been tested and is known to meet the prerequisite levels is SuSE Version 7.1. In order to run Java components such as the JMS or Java client, the distribution of Linux must support the IBM Java runtime environment.

SSL channel support	• libgcc-3.0 or libstdc++, Version 2.9
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 MQ coordination
	  – IBM DB® Universal Database™, Version 7.1 or 7.2
	  – Oracle 9i

Supported languages and compilers	• MQI C and C++ libraries are provided for the gcc and g++, Version 2.95 compilers

WebSphere MQ requirements for Java applications	

WebSphere MQ classes for JMS (supplied in the product)	• To run MQ for Java, you need the following:
	  – WebSphere MQ as supplied in the product
	  – Java 2 Software Development Kit (JDK) or Java Runtime Environment (JRE) for the server and/or client platforms
	• To run Publish/Subscribe applications, you need one of the following:
	  – SupportPac MA0C: MQSeries — Publish/Subscribe
	  – IBM WebSphere Integrator, Version 2

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 refer to **ibm.com**/developerworks/java.

Clients	• Clients for this and other WebSphere MQ platforms are supplied with this product.

Program information	
	• Program number: 5724-B41 • Part number: BA05SML • Language features: multilingual • Available as media packs or software download

Business integration building blocks

With the IBM WebSphere MQ family, you can combine business integration products and solutions selectively or build one upon the other to help integrate business processes within and across enterprises.

WebSphere MQ for Linux on zSeries, Version 5.3 is part of the IBM WebSphere software platform for e-business — a set of integrated, award-winning e-business solutions. No matter where you are in the e-business cycle, the WebSphere software platform can allow you to grow — at the speed the market demands.

Building on this robust platform, you can connect diverse IT environments to maximize your current investments and leverage existing skills with a full range of business integration solutions from the IBM WebSphere MQ family of products.

For more information

IBM WebSphere MQ for Linux on 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 known as IBM MQSeries) family of products and how WebSphere MQ for Linux on zSeries, Version 5.3 can help streamline the management of your e-business processes, visit:

ibm.com/mqseries

Product	Function	Benefit
IBM WebSphere MQ	Messaging integration	Integrate applications across more than 35 platforms with assured once-only message delivery.
IBM WebSphere MQ Everyplace™	Mobile integration	Securely extend your e-business integration to a mobile workforce.
IBM MQSeries Adapter Offering	Application adapters	Rapidly develop adapters to integrate custom applications.
IBM WebSphere Adapters	Packaged application adapters	Utilize prebuilt application adapters to integrate packaged software, like Ariba Buyer and SAP.
IBM WebSphere MQ Integrator	Wide-scale messaging integration	Enable dynamic, distributed, event-driven application integration.
IBM WebSphere Data Interchange	Electronic Data Integration (EDI) translation	Translate business information for exchange with trading partners.
IBM CrossWorlds Interchange Server	Process-based integration	Coordinate business applications across multiple processes.
IBM CrossWorlds Collaborations	Industry-specific solution templates	Leverage proven industry solutions for fast deployment.
IBM CrossWorlds Trading Partner Integration	Business-to-business integration	Automate supply-chain interaction through a gateway for business-to-business communication.
IBM WebSphere Partner Agreement Manager	Business-to-business integration with RosettaNet	Participate with trading partners in RosettaNet communications.
IBM MQSeries Workflow	Business process management	Define and execute complete business processes.
HOLOSOFX BPM Suite	Business process modeling and monitoring	Model, simulate and monitor business processes that execute in the runtime for MQSeries Workflow.

IBM®

e business software