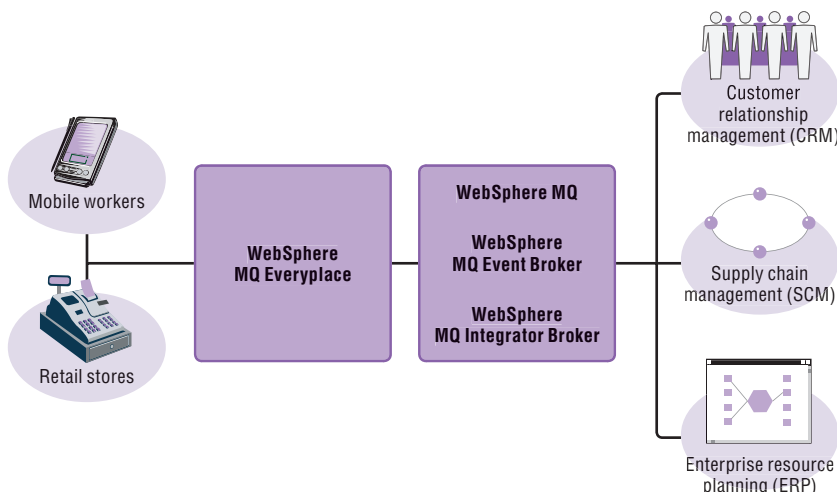# IBM WebSphere MQ Everyplace, Version 2.0

Highlights

- **Allows you to extend your IT infra-structure to the mobile environment with robust and dependable access to business-critical applications anytime, anywhere**

- **Helps you gather transactions from the marketplace to enable realtime analysis**

- **Supports publish and subscribe messaging when used with WebSphere MQ Integrator Broker or with WebSphere MQ Event Broker**

- **Integrates seamlessly with other components of the WebSphere MQ family and IBM WebSphere Everyplace offerings to protect and extend existing investments**

- **Enables comprehensive security with encryption, authentication and nonrepudiation**

- **Supports fragile networks with messaging over satellite, phone lines and radio links**

Today's fast-paced environment demands convenient access to business-critical applications and information—whenever and wher-ever customers, employees and trading partners need it. Events and activities taking place in the field must be rapidly and securely inte-grated into your core business if your enterprise is to remain vital and responsive.

Extending your e-business infra-structure to remote machines and mobile workers—anytime, any-place, anywhere—can increase the effectiveness of your organization and help you gain a competitive advantage. IBM WebSphere® MQ Everyplace™ for Multiplatforms, Version 2.0 offers a robust, reliable solution—providing award-winning, industrial-strength messaging and the ability to cost-effectively extend enterprise applications to mobile notebooks, personal digital assis-tants (PDAs), wireless phones and retail systems.

IBM WebSphere MQ Everyplace extends your IT infrastructure to mobile workers and remote machines.

Mobile integration delivers agility

WebSphere MQ Everyplace, formerly IBM MQSeries® Everyplace, is message-oriented middleware designed to help you integrate mobile workers and resources with your enterprise. Optimized for distributed and mobile environments, this innovative extension to the WebSphere MQ family of products can help you reduce costs and better deploy staff and information resources. The ability to support mobile customer service and transactions increases your visibility across business processes and can help set you apart in a crowded marketplace.

WebSphere MQ Everyplace can help you take advantage of existing investments in integration middleware, like IBM WebSphere MQ, by extending the reach of business integration to the mobile environment. WebSphere MQ Integrator Broker and WebSphere MQ Event Broker connect with WebSphere MQ Everyplace to help you extend business integration to the mobile environment, giving your company remote access to enterprise applications and data. Because WebSphere MQ Everyplace offers convenient and robust mobile integration, employees can concentrate on their work in the field — rather than on communication availability. WebSphere MQ Everyplace supports a selection of compression, authentication and security options to help ensure access to data is convenient, reliable and secure.

Designed for unmanaged networks, WebSphere MQ Everyplace minimizes its use of system resources and the investment in setup and administration. WebSphere MQ Everyplace allows you to tailor functions and interfaces to meet your particular needs, including both synchronous and asynchronous messaging support, local and remote queue access, direct and indirect routing, and extensive customization capabilities. With its rules-based operations, WebSphere MQ Everyplace can hold and transmit messages at the most economical communications rate or at a specified time. And with an optimized data stream, the minimum amount of data is sent, which can potentially lower transmission costs even further.

Multiple programming options offer greater accessibility

WebSphere MQ Everyplace supports multiple programming options and platforms, including Microsoft® Windows XP and Microsoft Pocket PC. In addition, this version introduces native C language implementation for Microsoft Pocket PC. It also supports point-to-point messaging using the Java™ Message Service (JMS), an integral part of Java 2 Platform, Enterprise Edition (J2EE) technology that improves programmer productivity by defining a common set of messaging

concepts and programming strategies. A subset of WebSphere MQ Everyplace runs on the Java 2 Platform, Micro Edition (J2ME) technology, which covers a range of smaller devices such as smart cards, pagers or small PDAs. WebSphere MQ Everyplace simplifies administration, and through a Support Pac provides an interface for vendor software through Java Management Extensions (JMX), an open technology for system management designed to adapt legacy systems and implement new management solutions.

Retail systems integration delivers business flexibility

To stay competitive, retail businesses must react to events on the shop floor and in the field faster than ever before. Gathering transactions from the marketplace and integrating this information into enterprise systems for realtime analysis is crucial to understanding customer behavior. IBM WebSphere MQ Everyplace Retail Edition operates on retail systems — such as the IBM 4690 — enabling transactions captured from electronic point-of-sale (POS) machines to feed into enterprise systems more efficiently. Dependable message delivery and leveraging the 4690 mirrored file system lets you conduct global business securely.

Business integration building blocks

With the IBM WebSphere MQ family of products, you can combine business integration products and solutions selectively or build one upon the other to help integrate applications and business processes within and across enterprises. WebSphere MQ Everyplace is part of the 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 your market demands. Building on this robust platform, you can integrate diverse IT environments to maximize your current investments. And leverage existing skills with a full range of business integration solutions from the WebSphere family of products.

For more information

IBM WebSphere MQ Everyplace 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 about streamlining the management of your e-business processes, visit:

ibm.com/webspheremq

Business integration building blocks

Product or solution	Function	Benefit
IBM WebSphere MQ	Messaging integration	Connect between diverse applications with assured once-only message delivery.
IBM WebSphere MQ Everyplace	Mobile and wireless integration	Securely extend your e-business to a mobile workforce.
IBM WebSphere Business Integration Adapters, IBM WebSphere Adapters and IBM CrossWorlds® Connectors	Packaged application connectivity	Utilize prebuilt application adapters to integrate packaged software, like Ariba Buyer and SAP.
IBM WebSphere MQ Event Broker	High-performance message publish and subscribe function	Dynamically distribute messages.
IBM WebSphere MQ Integrator Broker	Message transformation and routing	Simplify information exchange between multiple applications.
IBM WebSphere Data Interchange	Electronic Data Interchange (EDI) translation	Integrate EDI and your messaging-based infrastructure.
IBM CrossWorlds InterChange Server	Business process integration	Coordinate business processes across multiple applications.
IBM CrossWorlds Toolset	Business process integration customizing and managing	Easily implement and maintain business integration processes.
IBM CrossWorlds Collaborations	Business process definition and automation	Leverage proven industry process templates to deploy integration solutions quickly.
IBM CrossWorlds Trading Partner Integration	Business-to-business (B2B) communication	Automate supply-chain interaction through a gateway for B2B communication.
IBM MQSeries Workflow	Business process management	Manage business processes across multiple applications and people.
HOLOSOFX BPM Suite	Business process modeling and monitoring	Model, simulate and monitor business processes that execute in the runtime for MQSeries Workflow.
IBM WebSphere Business Integration	A single offering that combines WebSphere MQ Integrator Broker, MQSeries Workflow and CrossWorlds InterChange Server	Deploy WebSphere business integration products as needed.
IBM WebSphere Business Connection	B2B integration with trading partners using Web services or XML data exchange	Extend business process integration securely with trading partners, suppliers and customers.

IBM WebSphere MQ Everyplace, Version 2.0

Hardware requirements

Any Year 2000-ready vendor hardware that is explicitly compatible with and fully capable of running the specified operating system, all the corresponding supporting software and any associated applications, unmodified. Responsibility to provide statement of full compatibility between machines lies with the original equipment provider.

Software requirements

IBM WebSphere MQ Everyplace, Version 2.0 can be deployed anywhere there is an appropriate Java runtime environment (JRE).	• IBM Java Runtime Environment or IBM Java Development Kit (JDK), Version 1.1.8 or higher, including J2ME
	• Microsoft Virtual Machine for Java, Version 5.0.3155 or higher
	• Any JRE that is Sun Java compatible, Version 1.1 or higher
	• Any J2ME runtime that supports CLDC/MIDP or CDC/Foundation
	  – IBM J2ME runtime (IBM WebSphere Studio Micro Edition)
	  – Other "Java powered" (comparable to "Java compatible") runtimes*
	• HP Jornada devices (Model 680 or 820) running Windows CE operating system**
	• Palm 5 or IBM WorkPad® C3**
	• One of the server platforms with direct support (see below)
	
	 *Some J2ME implementations have restricted runtime environments that may not support sufficient memory for WebSphere MQ Everyplace to run. Problems reported may need to be reproduced in the equivalent IBM environment before they will be fixed, as a result of problems with other KVM implementations.
	
	 **Java must be fully compatible with Java tested on these platforms for services to be available.
	
	 Note: IBM WebSphere MQ Classes for Java are required for the bridge to WebSphere MQ to operate. To download WebSphere MQ Classes for Java as SupportPac MA88, visit: **ibm.com**/software/mq/txppacs/ma88.html.

Server platforms with installation support	• WebSphere MQ Everyplace is directly installable, using built-in tools, only on these server platforms. • IBM AIX®, Version 4.3.3 or 5.1 • Sun Solaris operating environment, Version 7 or 8 • Microsoft Windows NT®, Version 4.0 • Microsoft Windows® 2000 • Windows XP (Professional Edition) • Windows 95 • Windows 98 • Windows Me • Linux™ (for Intel® only), Kernel 2.2 or 2.4 (Note: Installation not automatic) • HP-UX, Version 11.0
Directly supported platforms without installation support	WebSphere MQ Everyplace is supported for testing and deployment on the following platforms, which support installation only by file transfer from another platform. • IBM 4690 OS with Java support • Linux, Kernel 2.4 for IBM @server zSeries™ • IBM @server iSeries™, Version 5.1 or 5.2
Interoperability requirements	WebSphere MQ Everyplace is compatible with the TCP/IP infrastructure provided by Tivoli® SecureWay® Wireless Gateway for AIX, Version 5.5.
Device support in Java	For devices (clients), any device supporting the specified JRE may be used.
Native C support for devices	• Pocket PC 2000 or 2002 OS running on SA1110 ARM processor or equivalent • The Palm runs a C subset of WebSphere MQ Everyplace function. The following devices are supported for this subset: – Palm V, IBM WorkPad C3 or equivalent

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