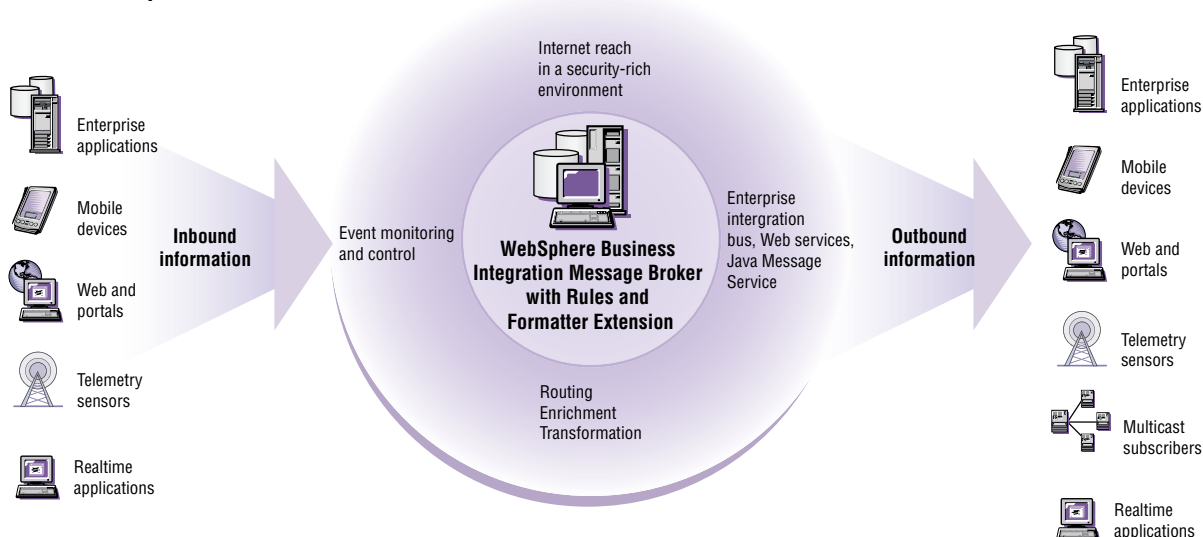


# IBM WebSphere Business Integration Message Broker with Rules and Formatter Extension for Multiplatforms, Version 5.0

## Highlights

- **Distributes business event information in realtime to people, applications, mobile and wireless and telemetry devices throughout your extended enterprise**
- **Increases business flexibility and helps reduce development costs by separating integration logic from applications**
- **Facilitates communication among otherwise incompatible applications and includes New Era of Networks functionality in this product (follow-on to IBM WebSphere MQ Integrator)**
- **Extends the reach of your business beyond your firewall by supporting multiple transport protocols**
- **Eliminates tedious programming and software maintenance by providing centralized control for configurable, any-to-any data transformation and information distribution**
- **Helps boost efficiency and leverage skills across the entire WebSphere platform through use of a consistent graphical development environment**
- **Speeds deployment through simple, one-click installation**

At the core of every business event is important information that should be captured and made available to people and applications in your enterprise. For example, when a customer visits your Web site, your customer relationship management (CRM) system should receive information about that person's browsing and buying habits. Depending on the customer's actions, your manufacturing system may be triggered and the warehouse notified of scheduled deliveries. The accounting department may need a credit card number or purchase order authorization, and the shipping department will need an address. Other internal systems that analyze trends or present up-to-the-minute executive summaries will also need to be updated at the same time.



WebSphere Business Integration Message Broker with Rules and Formatter Extension routes targeted messages in realtime from multiple devices and locations to people and applications throughout your enterprise—and beyond.

Your ability to rapidly and efficiently distribute information that originates from routine business activities is critical for your e-business success. To facilitate fast, informed decision-making that prompts appropriate actions, you must provide the right information to the right people and applications, precisely when they need it. When a single information source is updated, changes should be immediately distributed to all affected systems so that related data throughout your enterprise can be automatically refreshed.

IBM WebSphere® Business Integration Message Broker with Rules and Formatter Extension for Multiplatforms, Version 5.0—replacing IBM WebSphere MQ Integrator, Version 2.1—provides a flexible infrastructure for realtime integration of messages and events. Regardless of when or where these business events occur, you can capture targeted information and distribute it immediately to the applications and people who need it. You can incorporate Web transactions, information exchanged with trading partners, data from third-party packaged applications or field data from time-critical events like those that occur in financial markets.

By expanding your reach to integrate people, applications and events throughout your enterprise, you can become an on demand business—one that intelligently adapts to current market conditions and responds immediately to constantly changing business requirements.

#### **Share information in realtime with your extended enterprise**

For many business events you need a broker to manage message mediation between applications with similar message structures. But at times you may also need to share information from a trading partner whose application uses a different message structure or format from your receiving application. For example, you may need to exchange data between your CRM and supply chain management databases to determine how much and what types of merchandise to stock for promotional events.

WebSphere Business Integration Message Broker builds on the capabilities of IBM WebSphere Business Integration Event Broker, Version 5.0, adding transformation and enrichment of in-flight information and database integration to the basic broker functions. So you can exchange information in realtime with trading partners and customers—and synchronize multiple databases through event-driven updates that provide a clear picture of current business conditions.

WebSphere Business Integration Message Broker with Rules and Formatter Extension adds a high performance rules function that uses predefined criteria to process messages with complex structures and multiple variables. So if a message contains multiple fields—such as currency, amount, customer and location—you can use the New Era of Networks Rules to determine message processing based on all of those fields.

#### **Manage business event information reliably and consistently**

By adding and updating required message fields that receiving applications expect, WebSphere Business Integration Message Broker with Rules and Formatter Extension enriches in-flight information so your business applications won't need to be modified. For example, you can incorporate a new business application that runs on a platform with structured data formats like XML with an environment that uses record-oriented formats. Use the broker to help you:

- *Manage information flows between independent systems housed in separate divisions and departments—or information exchanged with trading partners outside your firewall.*

- *Construct a versatile enterprise integration bus—or infrastructure backbone—that lets you conduct business reliably and in a security-rich environment for various situations, applications and devices.*
- *Eliminate manual data rekeying to reduce costs and error rates.*
- *Distribute current business information rapidly and consistently to appropriate applications and people.*

### **Optimize responses with tailored message flows**

An agile messaging infrastructure that's built on open industry standards and based on industry-leading IBM WebSphere MQ, WebSphere Business Integration Message Broker with Rules and Formatter Extension helps you effectively leverage business event information wherever it is, however it's stored. With reliable, once-only delivery for a broad range of platforms, you can optimize responses throughout your extended enterprise based on information gathered during all types of business activities. And construct message flows to direct the distribution of information among people and applications based on policies or business rules.

You can monitor oil production directly from telemetry sensors in the field and adjust pipeline flows remotely, as needed. Find out exactly when you need to divert production resources to quickly increase shipment volumes. Or send specialized market datafeeds to people or applications based on unique requirements. By separating message-routing logic from applications, WebSphere Business Integration Message Broker with Rules and Formatter Extension gives you the flexibility to change the way messages are routed, without requiring modification of the applications involved. Whether information is generated inside or outside the traditional boundaries of your enterprise, you can integrate it with your core applications to sustain competitive advantage.

### **Integrate without bounds**

WebSphere Business Integration Message Broker with Rules and Formatter Extension provides a choice of transport protocols—including those from the WebSphere MQ product family—to extend the reach of your enterprise beyond your firewall. With the telemetry transport, you can configure any sensor or control device to communicate with an enterprise integration bus broker. Information about real-world events can be captured automatically and used to drive key business activities. In turn, you can control and manage real-world activities from your enterprise.

You can share data among trading partners, customers and employees by integrating multiple message types, including Simple Object Access Protocol (SOAP), Electronic Data Interchange (EDI), C, COBOL and XML. Your consultants and services partners can also customize messages and flows using Java™ technology or C code to create broker plug-ins that enable specialized message routing, analysis or transformation algorithms.

Control message distribution, based on topic or content, and choose between multicast and unicast protocols to send group messages according to your specific needs. To simultaneously deliver identical information to multiple people or applications, use the multicast protocol to deliver your message. But when you need to send different information to many people or applications as efficiently as possible, choose the unicast protocol.

By placing multiple brokers across your network under central control, you can bypass single points of failure and easily manage information flows between disparate systems. With centralized control, you can coordinate your handling of business events and enable consistent processing so your systems can work more efficiently.

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## Broker products at a glance

(The following brokers are now part of the WebSphere business integration portfolio and have been renamed as shown.)

New name	Former name
IBM WebSphere Business Integration Event Broker	IBM WebSphere MQ Event Broker
IBM WebSphere Business Integration Message Broker	IBM WebSphere MQ Integrator Broker
IBM WebSphere Business Integration Message Broker with Rules and Formatter Extension	IBM WebSphere MQ Integrator

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## Transport protocols at a glance

Transport protocol	Function
IBM WebSphere MQ Enterprise Transport	Connects applications with WebSphere MQ (supports HTTP tunneling when used with IBM WebSphere MQ Internet Passthru)
IBM WebSphere MQ Everyplace®	Connects mobile and wireless device applications (supports HTTP tunneling)
IBM WebSphere MQ Web Services Transport	Connects applications that use the HTTP protocol
IBM WebSphere MQ Real-time Transport	Connects supplied messaging clients across the Internet and intranet through a security-rich environment
WebSphere MQ Multicast Transport	Optimizes network bandwidth when broadcasting messages to clients
WebSphere MQ Telemetry Transport	Connects remote devices through low-bandwidth communications

### Speed deployment with a graphical development environment

Use the graphical development environment included in WebSphere Business Integration Message Broker with Rules and Formatter Extension to visualize and model message flows and broker topologies. Modeling and visualization techniques can help developers find design flaws, so they can produce higher quality results faster, speeding your time to value. The tooling platform is based on IBM WebSphere Studio Workbench,

which uses the Eclipse open-source framework to provide a consistent look and feel with other IBM and third-party tool plug-ins.

The tools help simplify debugging and deployment, and support code repositories to facilitate teamwork. With a single, consistent tools model across the WebSphere business integration portfolio, you can protect your investments by using existing resources to deploy solutions across a range of industry-leading platforms.

### Get started quickly

With WebSphere Business Integration Message Broker with Rules and Formatter Extension, you can install and deploy your solution quickly, with easy-to-use features designed to help speed time to value. These features include:

- *One-click install*
- *Learn-as-you-go, context-sensitive help*
- *Predefined and sample configurations (Microsoft® Windows® platforms only)*

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## IBM WebSphere Business Integration Message Broker with Rules and Formatter Extension for Multiplatforms, Version 5.0 at a glance

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### Hardware requirements

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- Any vendor hardware explicitly compatible and fully capable of running the specified operating system, the corresponding supporting software and associated applications unmodified

*Note: Responsibility to provide statement of full compatibility between machines lies with the original equipment provider.*

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### Server requirements

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*One of the following:*

- IBM @server™ pSeries™ or IBM RS/6000® processor machines
  - Sun Microsystems SPARC processor machines
  - Hewlett-Packard HP-9000 processor machines
  - IBM @server xSeries® or equivalent Intel® IA32 processor-based systems
  - IBM @server iSeries™ (using IBM Integrated xSeries)
  - IBM @server zSeries® (for Linux and z/OS®)
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#### *Message broker toolkit for WebSphere Studio requirements*

Any Intel Pentium® III (or higher) processor-based IBM PC or compatible, with 700 or more MHz processor speed and a minimum of 512MB RAM

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### Software requirements

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*For message broker and user name server, one of the following:*

- IBM WebSphere MQ for IBM AIX®, Version 5.3 and AIX, Version 5.1 (Maintenance Level 3)
  - IBM WebSphere MQ for Sun Solaris, Version 5.3 and Sun Solaris 8 (plus SunSolve recommended patch level)
  - IBM WebSphere MQ for HP-UX, Version 5.3 and HP-UX, Version 11.0 (September 2002 Quality Pack) or HP-UX 11.11 (December 2002 Quality Pack)
  - IBM WebSphere MQ for Microsoft Windows NT®, Version 5.3 and Microsoft Windows NT Server, Version 4.0 (with Service Pack 6a) or Microsoft Windows 2000 Professional, Server and Advanced Server (with Service Pack 3)
  - IBM WebSphere MQ for Linux on Intel (Intel IA32), Version 5.3 and Red Hat Linux Advanced Server for Intel, Version 2.1 or SuSe Linux Enterprise Server for Intel (SLES) 8
  - IBM WebSphere MQ for Linux on zSeries, Version 5.3 and Suse Linux Enterprise Server for zSeries (SLES) 8
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*For message brokers toolkit for WebSphere Studio and configuration manager support*

- Microsoft Windows 2000 Professional, Server and Advanced Server (with Service Pack 3)
  - Microsoft Windows XP Professional (with Service Pack 1)
  - IBM DB2® Universal Database™ Enterprise Edition, Version 7.2 (with Fix Pack 9)
  - IBM DB2 Universal Database Enterprise Server Edition, Version 8.1 (with Fix Pack 2)
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*For Java support*

- Java Runtime Environment (JRE) 1.3.1 for broker, message brokers toolkit for WebSphere Studio and configuration manager
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*For database support, one of the following:*

- IBM DB2®, Version 8.1 Fix Pack 2 or IBM DB2, Version 7.2 Fix Pack 9
- Oracle 9i Release 2
- Microsoft SQL Server, Version 7.0 (Service Pack 4) or Microsoft SQL Server 2000 (Service Pack 3)
- Sybase Adaptive Server Enterprise (ASE), Version 12.5

*Note: Globally coordinated transactions are supported for all platforms and RDBMS, except Microsoft SQL Server, Version 7.0, or Windows 2000.*

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## Meet demand with market-leading business integration solutions

Integration: the efficient, flexible combination of resources that enables you to optimize operations across and beyond the walls of your business. By tying together disparate resources, data, applications and processes, you can create a single, cooperative environment to unite your entire demand chain. And speed your return on investment and time to value.

With WebSphere business integration solutions from IBM, you can connect:

- *People.* By integrating business processes, your customers, employees, partners and suppliers can interact with your business more efficiently.
- *Processes.* By managing and coordinating your entire business horizontally, your IT infrastructure can keep pace with demand—and your business objectives.
- *Information.* By extending realtime access to distributed information, people and processes can take advantage of data and content resources from a variety of repositories.

In your transformation to e-business on demand™, you'll need to increase efficiencies. Streamline processes. Leverage existing assets. And provide immediate, dynamic, personalized information that helps build long-term relationships. The WebSphere business integration software portfolio delivers by helping your business become more focused. Flexible. Resilient. And better able to respond to the opportunities—and disruptions—that can influence your future growth.

### For more information

To learn more about IBM WebSphere Business Integration Message Broker with Rules and Formatter Extension for Multiplatforms, visit [ibm.com/software/integration](http://ibm.com/software/integration).



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05-03  
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