

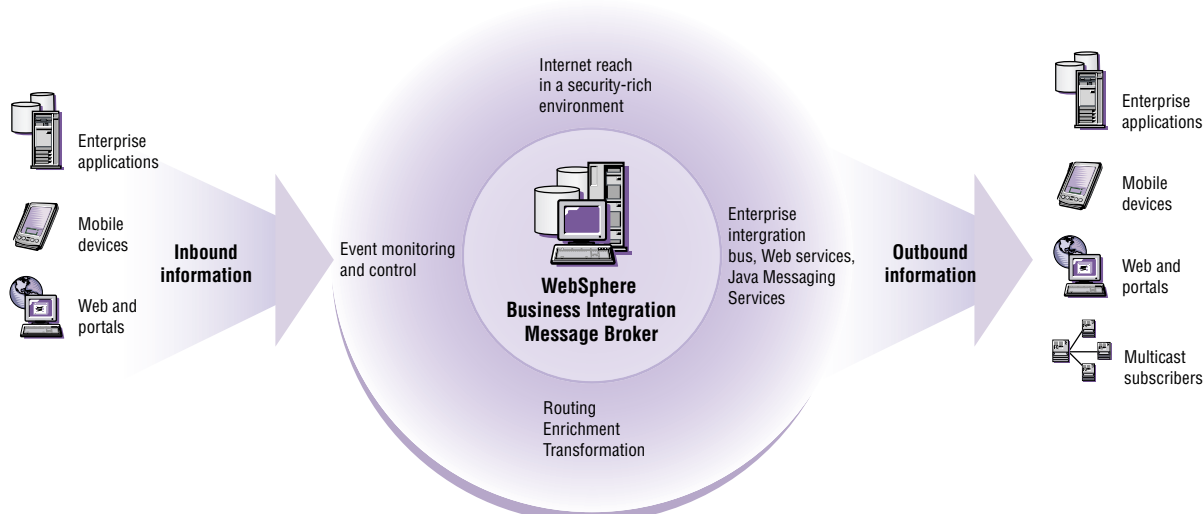
WebSphere® software

# IBM WebSphere Business Integration Message Broker for z/OS, Version 5.0

## Highlights

- **Distributes business event information in realtime to people, applications and pervasive 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**
- **Extends the reach of your business beyond your firewall by supporting multiple transport protocols**
- **Eliminates tedious point-to-point programming by utilizing any-to-any data transformation**
- **Helps boost efficiency and leverage skills across the entire WebSphere platform through use of a consistent graphical development environment**

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 may be 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.



WebSphere Business Integration Message Broker 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 distributed immediately to all affected systems so that related data throughout your enterprise can be automatically refreshed.

IBM WebSphere® Business Integration Message Broker for z/OS™, Version 5.0 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.

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

By adding and updating required message fields that receiving applications expect, WebSphere Business Integration Message Broker enriches in-flight information so your business applications won't need to be modified. For example, you can use the broker to convert finance industry records in FIX format to the format your enterprise resource planning (ERP) system needs, and identify key transactions for special reporting. 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.*
- *Integrate multiple applications, networks and device types using an enterprise integration bus—or infrastructure backbone—that lets you conduct business reliably and in a security-rich environment from virtually anywhere, anytime.*
- *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 for z/OS helps you effectively leverage business event information wherever it is, however it's stored. With reliable, once-and-only-once 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.

For example, you can 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 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 for z/OS provides a wide choice of transport protocols—including those from the WebSphere MQ product family—to extend the reach of your enterprise beyond your firewall. 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 multi-

cast 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.

### **Speed deployment with a graphical development environment**

Use the graphical development environment included in WebSphere Business Integration Message Broker 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.

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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 Message Broker, Version 5.0	IBM WebSphere MQ Integrator Broker, Version 2.1
IBM WebSphere Business Integration Message Broker with Rules and Formatter Extension, Version 5.0	IBM WebSphere MQ Integrator, Version 2.1
IBM WebSphere Business Integration Event Broker, Version 5.0	IBM WebSphere MQ Event Broker, Version 2.1

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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

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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.

### Meet demand with marketing-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.*

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## IBM WebSphere Business Integration Message Broker for z/OS, Version 5.0 at a glance

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### Hardware requirements

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

### Server requirements

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- Any server capable of running one of the listed IBM OS/390® or IBM z/OS releases.

### Software requirements

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

- IBM z/OS, Version 1 Release 4 or higher (5647-A01) or IBM SMP/E for z/OS, Version 3 Release 1 or higher
- HFS PTFs: UW69626, UW70296, UW70297, OW44631, UW74186, UW74187
- Recoverable Resource Services (RRS) PTFs (RRS must be started and running on the LPAR): OW49327, UW72071, UW72074, UW72077, UW72080
- SYSLOGD must be installed
- WebSphere MQ, Version 5.3 for z/OS (5655-F10)
- IBM DB2® Universal Database™, Version 7.1 at RSU0107 and PUT0107 (5675-DB2) plus APARs PQ45812 and PQ5308 plus PTF UQ56466
- Java Runtime Environment (JRE), Version 1.4

*Note: WebSphere Business Integration Message Broker for z/OS, Version 5.0 uses Hierarchical File System (HFS) and the customer must be familiar with HRS operation.*

*For message brokers toolkit for WebSphere Studio and configuration manager support*

- Microsoft® Windows NT® Workstation, Version 4.0 (with Service Pack 6a)
- Microsoft Windows® 2000 Professional Server and Advanced Server (with Service Pack 2)
- IBM DB2, Version 7.2 at RSU0107 and PUT0107 (5675-DB2) plus APARs PQ45812 and PQ53087 plus PTF UQ56466  
DB2 Universal Database, Version 7.1 at RSU0107 and PUT0107 (5675-DB2) plus APARs PQ45812 and PQ5308 plus PTF UQ56466

*Database support:*

- DB2, Version 7.1 5675-DB2
  - Coordinated Transactional Support is available with these databases
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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.

Built on open, industry standards like Java™ 2 Platform, Enterprise Edition (J2EE), Extensible Markup Language (XML) and new Web services standards, WebSphere Business Integration software helps 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 WebSphere Business Integration Message Broker for z/OS, visit [ibm.com/software/integration](http://ibm.com/software/integration).



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