



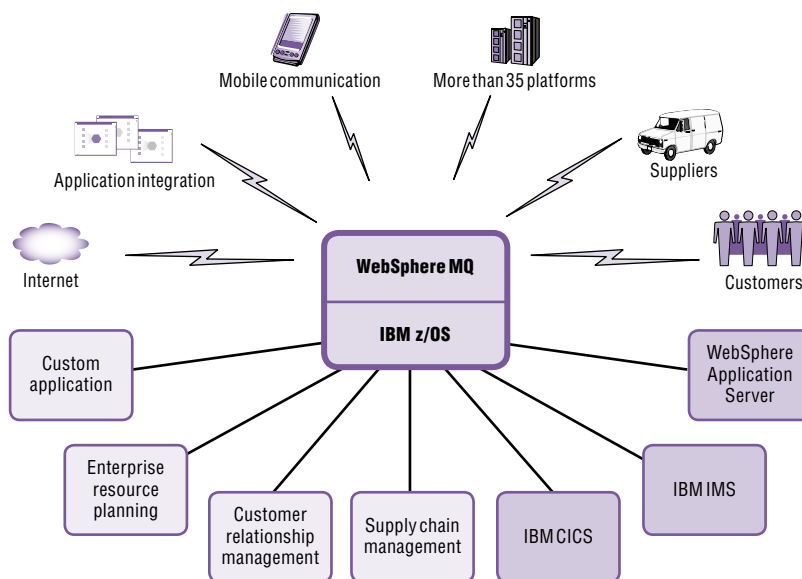
WebSphere® software

## IBM WebSphere MQ for z/OS, Version 5.3.1

### Highlights

- **Transports data between more than 35 WebSphere MQ and MQSeries platforms, allowing encryption if required**
- **Enables participation in publish and subscribe as part of a WebSphere MQ publish and subscribe network**
- **Supports persistent messages on shared queues to give assured delivery with workload balancing**
- **Provides three high-level-language APIs: MQ API, JMS and Application Messaging Interface (AMI)**
- **Supports clusters of queue managers to simplify administration, workload balancing and communication failover**
- **Supports XA protocol to facilitate better coordination of business resources**

In today's fast-paced business environment, you need to focus skills on key business requirements instead of wrestling with underlying network complexities. Offloading time-consuming tasks to reliable application integration software can help you concentrate on work that is critical to your organization. IBM WebSphere® MQ messaging products handle communication protocols to enable application integration. Provide once-only delivery of important messages. Help make programs portable. Dynamically distribute workload across available resources. And help you recover quickly from system problems.



IBM WebSphere MQ for z/OS, Version 5.3.1 enables business applications to exchange information across different platforms.

### **A common API for simpler integration**

WebSphere MQ provides a common, multiplatform application programming interface—known as 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 IBM @server™ zSeries™ 900 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.

### **New support for XA protocol**

IBM WebSphere MQ for z/OS™, Version 5.3.1 now supports WebSphere MQ extended transactional clients running on Microsoft® Windows® 2000, Windows NT®, Windows XP, IBM AIX®, Sun Solaris, Linux™ for Intel®, Linux for zSeries and HP-UX systems. This enables transaction management in conjunction with an external

syncpoint coordinator. And it allows applications, using the extended transactional client, to participate within a unit of work with other resource managers, such as IBM DB2® Universal Database™. All managed by the external syncpoint coordinator. Until now, this was only possible by co-locating the application with the WebSphere MQ for z/OS server.

Increased security features for Java™ Message Service (JMS) applications and improved support for the JMS interface (to provide message-driven beans) further enhance interaction between the IBM WebSphere Application Server environment and your enterprise applications.

WebSphere MQ for z/OS, Version 5.3.1 also includes enhancements for IBM IMS™ bridge and IBM CICS® bridge users. You can set the expiration time of request and reply messages to the same time. A new default workflow header feature allows IBM WebSphere MQ Workflow users to drive workflow processes with existing legacy messages. And a new receive timeout parameters feature helps all users improve channel recovery after network problems occur.

Continued support from earlier versions includes persistent shared-queue messages and out-of-the-box channel security features provided by Secure Sockets Layer (SSL), the Internet standard for safe communication. Enhanced performance features include WebSphere MQ classes for Java technology and the addition of WebSphere MQ classes for JMS, as a no-charge, separately installable feature of WebSphere MQ for z/OS.

The operational characteristics of queue managers include queue manager upgrade without operating system initial program loads (IPLs), more dynamic queue manager configuration changes, as well as more timely and efficient message expiration handling. Other enhancements include index rebuilding after queue manager restart and improved system scalability and reliability.

WebSphere MQ for z/OS, Version 5.3.1 maintains compatibility with the previous release and with the earlier IBM MQSeries for OS/390®, Version 5.2. WebSphere MQ for z/OS, Version 5.3.1 is upwardly compatible with programs written for IBM MQSeries for MVS/ESA™, Version 1.2, IBM MQSeries for OS/390, Version 2.1 and IBM MQSeries for OS/390, Version 5.2.

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## IBM WebSphere MQ for z/OS, Version 5.3.1 at a glance

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### Hardware requirements

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System	<ul style="list-style-type: none"><li>• Any IBM OS/390 or @server zSeries 900 processor capable of running the required level of a compatible operating system and has enough storage to meet the combined requirements of the programming prerequisites, WebSphere MQ for z/OS, the access methods and the application programs</li></ul>
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### Software requirements

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Operating environment	<ul style="list-style-type: none"><li>• IBM OS/390, Version 2.9 or IBM z/OS, Version 1.1</li></ul>
Shared queues	<ul style="list-style-type: none"><li>• OS/390, Version 2.9, with Resource Recovery Services (RRS) activated</li><li>• Coupling Facility level 9</li><li>• IBM DB2 Universal Database, Version 6.1</li></ul>
SSL requirements	<ul style="list-style-type: none"><li>• OS/390 cryptographic services system SSL function</li></ul>
CICS applications	<ul style="list-style-type: none"><li>• IBM CICS/ESA®, Version 4.1</li><li>• IBM CICS Transaction Server, Version 1.3</li><li>• BEA Tuxedo, Version 6.4 or 6.5</li></ul>
IMS applications	<ul style="list-style-type: none"><li>• IMS, Version 6.1</li></ul>
IBM DB2® applications	<ul style="list-style-type: none"><li>• DB2 Universal Database, Version 6.1</li></ul>
Miscellaneous	<ul style="list-style-type: none"><li>• z/OS includes appropriate levels of Language Environment®, TCP/IP, Virtual Telecommunications Access Method (VTAM®), SMP/E, Time Sharing Option (TSO/E), Job Entry Subsystem (JES), C/C++, Data Facility Storage Management Subsystem/Data Facility Product (DFSMSdfp™), OS/390 Security Server, High Level Assembler, Interactive System Productivity Facility (ISPF) and Internet Connection Secure Server (ICSS).</li></ul>

### Other requirements

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Other communication clients	<ul style="list-style-type: none"><li>• If you choose to replace IBM TCP/IP, use Unicenter TCPAccess Communications Server, Version 4.1 from Computer Associates, Inc. If you choose to replace IBM OESockets, use TCPAccess Communications Server, Version 5.2.</li></ul>
PL/I applications	<ul style="list-style-type: none"><li>• IBM PL/I for Multiple Virtual Storage (MVS™) and Virtual Machine (VM), Version 1.1.1</li><li>• IBM VisualAge® PL/I for OS/390 and VM, Version 2.2</li></ul>
COBOL applications	<ul style="list-style-type: none"><li>• IBM COBOL for OS/390 and VM, Version 2.1</li><li>• IBM COBOL for MVS and VM, Version 1.2</li></ul>
Java technology users	<ul style="list-style-type: none"><li>• IBM Developer Kit for OS/390, Java 2 Technology Edition, Version 1.3.1</li><li>• WebSphere Application Server, Version 4.0.1 for z/OS and OS/390</li></ul>

### Program information

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- Program number: 5655-F10
  - Part number: 5655-F10
  - Language features: multilingual
  - Available on magnetic tape, CST and DAT
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## **WebSphere Business Integration portfolio**

As the world's largest information technology company, IBM offers a wide range of middleware and operating systems for almost any computing platform, to give you the tools you need to be an e-business on demand™. The IBM WebSphere Business Integration portfolio delivers advanced middleware that allows you to unite applications, people and business processes so they can work as one. Built on open standards like Java 2 Platform, Enterprise Edition (J2EE), Extensible Markup Language (XML) and new Web services standards, this robust portfolio offers reliability, scalability and a security-rich environment—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 smoothly with customer and trading partner systems to deliver immediate, dynamic and personalized information. And you can monitor your processes from end to end, to gain a current view of enterprise performance. All to maximize business effectiveness and quickly make improvements. And realize better return on investment (ROI) and faster time to value.

### **For more information**

IBM WebSphere MQ for z/OS, Version 5.3.1 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 z/OS, Version 5.3.1 can help streamline the management of your e-business processes, visit:

[ibm.com/webspheremq](http://ibm.com/webspheremq)



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