

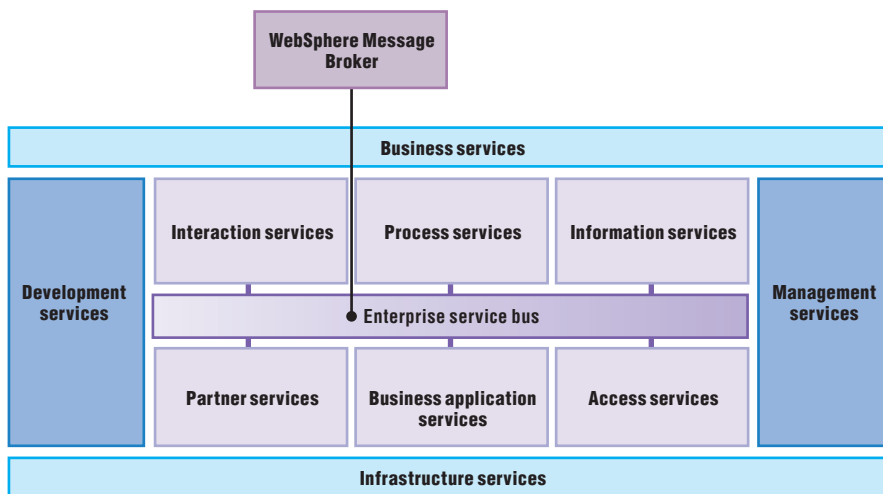


# IBM WebSphere Message Broker, Version 6.1

## Highlights

- *Routes, transforms and customizes virtually any content across heterogeneous IT environments*
- *Provides complex event processing and extensive message logging and reporting for operational efficiency*
- *Acts as a high-speed message and protocol switch for business and operational systems*
- *Enables growth to a full-federated ESB model through a smart SOA implementation*
- *Enriches message content through business rules and application or database access*
- *Offers a robust, scalable and high-performance solution for real-time integration*

As the pressure to become more responsive to everyone along your value chain continues to increase, you are charged with making the most of your IT investments. Maybe you want to move to a service oriented architecture (SOA) that can enable you to increase your reuse of assets and improve business flexibility. Or perhaps you just want to maximize the use of your existing applications and the essential data they continue to deliver to your business. Relying on manual, labor-intensive approaches or custom-coded programmatic solutions to bridge between applications is no longer effective.



Each business unit maintains its own data about its products and services. Employees have to reenter information as it moves from department to department—potentially creating delays and errors. And your developers are writing custom code to connect it all together. As your integration needs evolve, the time and expense to develop and maintain custom links between applications increases—which has the potential to directly affect your bottom line.

WebSphere Message Broker can serve as an enterprise service bus in a service oriented architecture.

You recognize the need to connect applications using security-rich and reliable delivery mechanisms, such as IBM WebSphere®MQ software, and to help ensure that the data being exchanged is delivered in the right format to the right application at the right time—without complex programming that would reduce flexibility and reuse. Combining all of your IT resources can help maximize operating efficiencies and provide consistent, accurate information to your customers, trading partners and suppliers. Rather than running newer applications in isolation, you can tap into and reuse your existing IT assets to provide the functions you need to run your business smoothly. Using a comprehensive enterprise service bus (ESB), you can integrate your assets more easily—and potentially get more value from the applications you're currently running.

### **Meeting the challenge of diverse IT systems**

IBM WebSphere Message Broker, Version 6.1 delivers a solution to address your application-integration and information-mediation needs, either as an integrated ESB as part of an SOA, or simply to provide flexible and powerful enterprise application integration (EAI) capabilities. With its robust design, scalable architecture, high performance and usability, WebSphere Message Broker software provides your business with an ESB that enables you to implement an enterprisewide SOA in stages, to meet your evolving business needs and grow to a complete federated ESB model. You can take advantage of this flexible combination of capabilities to solve your integration challenges from virtually any starting point. As your business expands, your integration challenges can multiply. WebSphere Message Broker can accommodate the changing needs of your business by enabling you to add to your infrastructure without increasing its complexity. As a result, you can protect your existing and ongoing investments in applications and data structures, as well as respond to changing business needs and new opportunities.

WebSphere Message Broker enables you to connect disparate applications and business data across multiple platforms, using different communications protocols, so that information is available exactly where you want it, in the format you need it, using the transport layer you need. You can use WebSphere Message Broker software to transform any and all of your business data, enriching it according to content and business rules, and route it between applications as it is required. By separating these integration tasks from your application logic, you can help core applications operate more efficiently, increase their reuse—and increase business flexibility in the process.

### **Your ESB with process integrity**

In an SOA, an *ESB* is a connectivity layer that optimizes information distribution between service requesters and service providers. It is important that there is process integrity enabling integrity of transactions, interactions, and information. Your organization needs an ESB as a part of your overall connectivity solution, reflecting how many of your applications conform to common standards and how many have not yet been made into services.

WebSphere Message Broker can handle high-performance, multiformat, real-time transformation and routing according to content and business rules, interacting and integrating with databases and other sources of application data, no matter what the data type or application programming style. WebSphere Message Broker can even wrap traditional applications as services to accelerate your SOA deployment. With WebSphere Message Broker delivering some or all of the transformation required by your business, you can enable in-flight transformation of complex and nonstandard data formats between applications and services without burdening the application logic with custom coding. WebSphere Message Broker can help maximize the value of your IT investments by broadening the range of environments you can reach through your ESB. You can deploy the environment and make capabilities available throughout your IT infrastructure using the robust capabilities of IBM WebSphere Application Server and WebSphere MQ.

WebSphere MQ seamlessly extends those messaging resources to integrate virtually anything, across more than 80 platforms. For example, WebSphere Message Broker can interact with Java™ 2 Platform, Enterprise Edition (J2EE) systems through Java Message Service (JMS) nodes for example, and we continue to increase the number of ready-to-use methods to interact with J2EE environments. Programming options for WebSphere MQ include the native MQI application programming interface (API) as well as support for JMS, and also programming interfaces designed to provide standardized APIs for programming environments other than Java.

WebSphere Message Broker delivers a full range of integration capabilities, such as content-based message routing and transformation, message enrichment and message logging, as well as support for a range of message-distribution options and protocols to improve the flexibility and performance of these services. These features enable WebSphere Message Broker to provide a comprehensive ESB capable of encompassing virtually all business systems and applications, as well as services, making full use of the IT assets of your business, and even allowing better integration with the applications and business processes of trading partners.

### **Create new business value from existing IT assets**

WebSphere Message Broker builds on your existing deployment of integration middleware to move your business beyond simple connectivity, enabling your business to handle more-complex integration challenges. Seamless, real-time links enable you to use and reuse your production applications and systems, and to integrate virtually any of your business applications, including standards-based composite applications, as part of your SOA. WebSphere Message Broker also helps make it easier to develop and deploy integration logic separate from the applications, so that you can be in production in less time, with simpler and more-reusable applications.

Because WebSphere Message Broker is designed to respond to your changing needs through an open and extendable set of interfaces, it can grow with your business, enabling you to add components to your IT infrastructure while reusing critical application functions as your business needs evolve. As a result, you can take advantage of next-generation innovation — and protect, exploit and extend your investments in existing business applications. WebSphere Message Broker plays a key role in delivering an ESB without limits, helping to ensure that your business can not only use the assets it has today, but also adapt to use new assets as they are developed as part of an overall connectivity solution for your business.

#### **New in this release**

WebSphere Message Broker, Version 6.1 includes new functions designed to enable you to integrate with many applications. These new functions include:

- *Reduced time to get started with Message Broker*
- *Simplified development tasks including debugging; reduced time to create working solutions*
- *Support for Web services natively with WS-Security and WS-Addressing*
- *Support for IBM WebSphere DataPower® Integration Appliance XI50 for WS-Security*

- *Integration and enhancement of IBM WebSphere Service Registry and Repository support*
- *Built-in nodes for enterprise information system (EIS) access: SAP, Siebel and PeopleSoft, Oracle eCommerce and JD Edwards*
- *Native support for very large file processing, including File Transfer Protocol (FTP)*
- *New Simple Mail Transfer Protocol (SMTP) and Transmission Control Protocol (TCP) nodes*
- *Integration of IBM WebSphere Transformation Extender, including launcher capability*
- *Enterprisewide identity, authentication and authorization with IBM Tivoli® software and Lightweight Directory Access Protocol (LDAP)*
- *Explorer Eclipse administration*
- *Numerous manageability improvements*
- *Support for 64-bit Linux®, Java Database Connectivity (JDBC) XA, and Java 5*
- *Ultra-high-performance XML parser, including schema validation*
- *Compacted memory footprint and real-time graphical performance analysis*
- *Significant performance improvement on all platforms*

#### *Function and alignment currency*

WebSphere Message Broker provides mission-critical connectivity. Version 6.1 helps you extend further into an SOA infrastructure by providing support for new platforms. Message Broker offers significant performance improvements across all across all platforms. It is a simple platform for file and message processing. It provides complex support for record identification and detection, including the identifying of message elements, and use of an existing message definition to identify record boundaries.

#### *Standards support and extended connectivity*

Simplify processing of large, repeating, complex file records without using excessive storage. Version 6.1 also has built-in JCA nodes for enterprise resource planning (ERP) systems. The nodes simplify management and improve performance for key ERP integration scenarios. Version 6.1 also provides compliance for Basic Profile 1.1. Ready-to-use support for WebSphere security and WebSphere addressing helps to broaden your SOA and Web-services support.

Integration with database applications is key to a successful SOA environment. WebSphere Message Broker with WebSphere Adapter for SAP is very fast and efficient. The new IDoc parser improves IDoc processing. The reliable file processing and high-performance XML parser provide a seamless integration with SAP.

Regardless of JMS providers, you gain universal connectivity throughout the enterprise. Message Broker provides multiple transports, including HTTP, any JMS 1.1 provider and WebSphere MQ. It also provides WebSphere Transformation Extender integration with a launcher capability. This allows Transformation Extender maps to run natively, providing an unparalleled range of transformation technologies.

#### *User experience and consumability capabilities*

New features in Message Broker, Version 6.1 help to improve installation and management. New users can jump-start with Message Broker in half the time of Version 6.0. With a single click, you can install and run the default configuration for Version 6.1. Message Broker is designed to enable users to install the product and run a sample in less than an hour.

In addition, Message Broker provides visual tools to help simplify development and reduce development time. Based on a configuration-driven approach for all new nodes, these tools include graphical tools and viewers to identify message locations and simplify routing and filtering for messages and databases, and a visual trace to display the message trace for ease of debugging and testing. WebSphere Message Broker provides coexistence and migration support for prior versions. You can use assets created in either Version 5 or Version 6 without the need for changes. Rollback is available with a single click. With these capabilities, you can migrate to Version 6.1 at your own pace.

Enterprisewide identity authentication and authorization with Tivoli software and Lightweight Directory Access Protocol (LDAP) enable you to enforce service policy at the user level for greater security.

#### *Common tooling across WebSphere platforms*

With WebSphere Message Broker, Version 6.1, you can administer both a WebSphere MQ and WebSphere Message Broker network in one console. Message Broker provides Explorer Eclipse administration.

It also provides toolkit integration with Eclipse-based WebSphere Transformation Extender tools. This integration provides a unified visual experience for extended transformation. Enhanced SOA support for WebSphere Service Registry and Repository enables you to virtualize services for greater reuse. You can also fortify security and accelerate WebSphere security processing with cross-domain support and support for IBM WebSphere DataPower Integration Appliance XI50.

#### **For more information**

To learn more about IBM WebSphere Message Broker, Version 6.1, contact your IBM representative or IBM Business Partner, or visit:

[ibm.com/websphere/wbmessage-broker](http://ibm.com/websphere/wbmessage-broker)

To join the Global WebSphere Community, visit:

[www.websphere.org](http://www.websphere.org)

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## IBM WebSphere Message Broker, Version 6.1 at a glance

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### New name

IBM WebSphere Message Broker

### Former name

IBM WebSphere Business Integration Message Broker

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## Hardware requirements

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

### *Server requirements (one of the following)*

- IBM System p™ or IBM RS/6000® server
  - Sun SPARC server
  - Hewlett-Packard HP-9000 server (PA-RISC or Itanium®)
  - IBM System x™ and Intel® technology-based server (or equivalent)
  - IBM System i™ server (using the IBM Integrated System x platform)
  - IBM System z™ server (for Linux on System z)
  - For IBM WebSphere Message Broker Toolkit:
    - Microsoft® Windows® x86 technology-compatible PC hardware
    - Any server capable of running one of the listed IBM z/OS® releases (for z/OS)
    - Solaris x86-64 platform AMD68, EMT64T and compatible processors)
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## Software requirements

### *Windows*

Operating systems (one of the following)

- Microsoft Windows XP Professional
- Windows Server 2003 Standard Edition
- Windows Server 2003 Enterprise Edition

### *Databases (one of the following)*

- IBM DB2® Universal Database™ Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Edition, Version 9.1
  - Informix Client SDK, V2.90 with UC4 Fix Pack
  - Informix Dynamic Server, V9.40 with UC7 Fix Pack
  - Microsoft SQL Server 2000 (plus Service Pack 3A)
  - Microsoft SQL Server 2005 (plus Service Pack 1)
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
  - Sybase Adaptive Server Enterprise (ASE), Version 12.5 (non-XA only)
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## IBM WebSphere Message Broker, Version 6.1 at a glance (continued)

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### Software requirements (continued)

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#### *AIX*

Operating systems (one of the following)

- IBM AIX®, Version 5.3

*Databases (one of the following)*

- DB2 Universal Database Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Edition, Version 9.1
  - Informix Client SDK, V2.90 with UC4 Fix Pack
  - Informix Dynamic Server, V9.40 with UC7 Fix Pack
  - Microsoft SQL Server 2000 (plus Service Pack 3A)
  - Microsoft SQL Server 2005 (plus Service Pack 1)
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
  - Sybase ASE, Version 12.5 (non-XA only)
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#### *HP-UX PA-RISC*

Operating systems

- HP-UX 11i, Version 2 (B.11.23)
- HP-UX 11i, Version 3 (B.11.31)

*Databases (one of the following)*

- Informix Client SDK, V2.90 with UC4 Fix Pack
  - Informix Dynamic Server, V9.40 with UC7 Fix Pack
  - Microsoft SQL Server 2000 (plus Service Pack 3A)
  - Microsoft SQL Server 2005 (plus Service Pack 1)
  - DB2 Universal Database Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Edition, Version 9.1
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
  - Sybase ASE, Version 12.5 (non-XA only)
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#### *HP-UX Itanium*

Operating system

- HP-UX 11i, Version 2 for Integrity (B11.23)

*Databases (one of the following)*

- DB2 Universal Database Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Edition, Version 9.1
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
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#### *Sun Solaris SPARC*

Operating systems (one of the following)

- Sun Solaris Operating Environment, Version 9 recommended Patch Cluster level
- Sun Solaris Operating Environment, Version 10 recommended Patch Cluster level

*Databases (one of the following)*

- DB2 Universal Database Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Edition, Version 9.1
  - Informix Client SDK, V2.90 with UC4 Fix Pack
  - Informix Dynamic Server, V9.40 with UC7 Fix Pack
  - Microsoft SQL Server 2000 (plus Service Pack 3A)
  - Oracle 9i Standard or Enterprise Edition, Release 2 Patch Set 4
  - Microsoft SQL Server 2005 (plus Service Pack 1)
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
  - Sybase ASE, Version 12.5 (non-XA only)
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## IBM WebSphere Message Broker, Version 6.1 at a glance (continued)

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### Software requirements (continued)

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#### *Sun x86-64*

Operating systems (one of the following)

- Sun Solaris Operating Environment, Version 10 recommended Patch Cluster level

*Databases (one of the following)*

- DB2 Universal Database Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Edition, Version 9.1
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
  - Sybase ASE, Version 12.5 (non-XA only)
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#### *Linux on x86, x86-64, System z*

Operating systems (one of the following)

- Linux Intel SUSE Linux Enterprise Server (SLES), V9
- Linux Intel SUSE Linux Enterprise Server (SLES), V10
- Linux Red Hat Enterprise (RHEL) Linux AS, V4.0 (plus Update 2) or later
- Linux Red Hat Enterprise Linux AS, V5.0 or later

*Databases (one of the following)*

- DB2 Universal Database Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Edition, Version 9.1
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
  - Sybase ASE, Version 12.5 (non-XA only); not available on Linux on System z
  - Informix Client SDK, V2.90 with UC4 Fix Pack
  - Informix Dynamic Server, V9.40 with UC7 Fix Pack
  - Microsoft SQL Server 2000 (plus Service Pack 3A) (not System z)
  - Microsoft SQL Server 2005 (plus Service Pack 1) (not System z)
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#### *z/OS*

Operating systems (one of the following)

- IBM z/OS, Version 1.7 (5694-A01) at RSU0609 or later (for the target system)
- IBM SMP/E for z/OS (5655-G44), Version 3.3 or later

*Databases (one of the following)*

- DB2 Universal Database (S625-DB2), Version 8.1 at RSU0609 or later
  - DB2, Version 9.1
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#### *Linux on Power*

Operating systems (one of the following)

- Linux Intel PowerPC SUSE Linux Enterprise Server (SLES), V9
- Linux Intel PowerPC SUSE Linux Enterprise Server (SLES), V10
- Linux PowerPC Red Hat Enterprise (RHEL) Linux AS, V4.0 (plus Update 2) or later
- Linux PowerPC Red Hat Enterprise Linux AS, V5.0 or later

*Databases (one of the following)*

- DB2 Universal Database Enterprise Edition, Version 8.2
  - DB2 Universal Database Enterprise Server, Version 9.1
  - Oracle 10g Standard or Enterprise Edition, Release 1 and 2
  - Sybase ASE, Version 12.5 (non-XA only); not available on Linux on System z
  - Informix Client SDK, V2.90 with UC4 Fix Pack
  - Informix Dynamic Server, V9.40 with UC7 Fix Pack
  - Microsoft SQL Server 2000 (plus Service Pack 3A)
  - Microsoft SQL Server 2005 (plus Service Pack 1)
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