



# IBM WebSphere Message Broker V8.0 delivers enhancements for connectivity and an improved development experience, and adds new support for virtualization environments on IBM AIX

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## At a glance

WebSphere® Message Broker V8.0 delivers further enhancements to productivity and ease in developing and managing enterprise service bus (ESB) deployments, complementing its industry-leading performance and scalability.

New in V8.0:

- Comprehensive support for Microsoft™ .NET environments
- New Data Format Description Language (DFDL) standards-based parser for text and binary data
- New Graphical Data Mapper for transforming XML, text, and binary data
- Enhanced auditing of data with new edit, record, and replay functionality complemented by comprehensive graphical tooling
- Direct connectivity and productivity aids for integrating with IBM® Sterling Connect: Direct
- New Hypervisor Edition for IBM AIX®
- Tiered pricing model, including new Express® Edition
- Support for Web Services Reliable Messaging (WS-RM)

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

## Overview

With broad connectivity to a wide range of data sources including packaged applications, files, and databases, WebSphere Message Broker is the solution if you are seeking an ESB that provides connectivity and transformation spanning heterogeneous IT environments. WebSphere Message Broker V8.0 continues to bring you industry-leading performance and scalability, and delivers further improvements to productivity as well as ease in developing and managing ESB deployments.

Enhancements in V8.0 include:

- Comprehensive support for Microsoft .NET environments

- New Data Format Description Language (DFDL) standards-based parser for text and binary data
- New Graphical Data Mapper for transforming XML, text, and binary data
- Enhanced auditing of data with new edit, record, and replay functionality complemented by advanced graphical tooling
- Direct connectivity and productivity aids for integrating with IBM Sterling Connect: Direct
- New Hypervisor Edition for IBM AIX
- Tiered pricing model including new Express Edition
- Support for Web Services Reliable Messaging (WS-RM)

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## Key prerequisites

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Refer to the [Hardware requirements](#) and [Software requirements](#) sections.

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## Planned availability date

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December 9, 2011:

- IBM WebSphere Message Broker V8.0 - Electronic distribution
- IBM WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX - Electronic distribution only
- IBM WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux™ Server for x86 - Electronic distribution only

December 16, 2011:

- IBM WebSphere Message Broker V8.0 - Media pack

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## Description

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The enhancements delivered in WebSphere Message Broker V8.0 are as follows:

- **Comprehensive support for Microsoft .NET environments**

WebSphere Message Broker V8.0 dramatically improves the ease of development for Microsoft .NET solutions with enhanced connectivity and a new tightly integrated development tooling experience with Microsoft Visual Studio. This enables clients to take advantage of existing Microsoft .NET skills and assets and opens up a wealth of possibilities for connecting .NET applications using the proven scalability and availability of WebSphere Message Broker. Clients may choose to integrate new or existing .NET applications directly within WebSphere Message Broker flows and integrate with existing Component Object Model (COM) applications to unlock data held in Microsoft business applications and customer relationship management (CRM) suites.

With direct support for many of the languages supported by the Microsoft Common Language Runtime (CLR), WebSphere Message Broker V8.0 enables users to invoke programs written in a wealth of languages including COM, JScript, Visual Basic, and C#.

Developers can create the logic for their own WebSphere Message Broker .NET nodes directly within the Microsoft Visual Studio development environment, which can be launched from WebSphere Message Broker Toolkit. Developer aids, such as Visual studio plug-ins and node templates, simplify development and switching between the two development environments. To view .NET artifacts is as simple as a "double click".

With access to the full breadth of WebSphere Message Broker functionality and message trees, and the ability to develop and debug in a Microsoft Visual Studio .NET environment using familiar application programming interfaces (APIs), WebSphere Message Broker V8.0 ensures that clients can take full advantage of both their existing .NET skills and software investment.

- **Enhanced audit of in-flight data with new edit, record, and replay capability**

The ability to understand and monitor the data flowing across corporate networks is becoming an imperative for many organizations. With the increase in regulatory requirements many large organizations are implementing more extensive audit capabilities for data in their network to capture data as part of a system of record.

Additionally, with operational costs under more scrutiny, and users expecting ever faster turnaround times, the ability to quickly identify and correct erroneous data to prevent downstream processing problems, and lost or delayed orders, can translate into improved efficiency and customer satisfaction.

The edit, record, and replay capabilities in WebSphere Message Broker V8.0 provide new and powerful browser based tooling which allows suitably authorized users and administrators to view, edit, record, and replay data flowing through the broker from all sources, including messaging, web services, and Enterprise Information Systems.

Secure role-based access for end users, auditors, and administrators ensures that users can only view in-transit data of relevance to them, and administrators can control access to restricted data through the use of predefined filters, including masking of sensitive data within a payload.

Using configurable filters, users can search for specific data using a number of different criteria, including transaction type and ID, as well as payload information. Once found, the data of interest may be stored unchanged for audit purposes in any of the WebSphere Message Broker supported applications or databases. Alternatively, users may choose to edit the data to correct errors before reprocessing via existing WebSphere Message Broker flows.

- **Direct connectivity to IBM Sterling Connect: Direct**

Many organizations have chosen IBM Sterling Connect: Direct for processing file based data, both within their business and in communicating with business partners. In order to support connectivity between these file based networks and messaging, or other enterprise applications, WebSphere Message Broker V8.0 introduces new integrated nodes and developer aids for connecting to IBM Sterling Connect: Direct.

By utilizing WebSphere Message Broker as the bridge, clients not only can take advantage of the broad range of connectivity, routing, and transformation capabilities offered by WebSphere Message Broker, but can gain end-to-end visibility of file and message traffic across the business network.

WebSphere Message Broker V8.0 provides common transformation patterns on the toolkit palette for rapid integration between the file and messaging based networks. Common patterns, such as conversion of a batch of records to or from WebSphere MQ messages, are provided out-of-the box to support rapid development of flows.

- **New parser and graphical data mapper tooling for text and binary data**

Data within a business environment takes numerous different forms, ranging from database records to structured text and XML, as well as raw binary formats common across many applications. The ability to quickly model and transform this data into new formats can provide faster processing across business boundaries and unlock significant potential in previously unused sources of valuable customer information.

In addition to the existing WebSphere Message Broker Parser capability (MRM), WebSphere Message Broker V8.0 introduces a new DFDL-based parser which provides an open standard-based, efficient means of accessing, parsing, and transforming data held in many different formats with a focus on text and binary data.

Using the DFDL standard, clients may choose to build their own custom transforms. These either can be outside of the WebSphere Message Broker environment for use across their business applications, or can take full advantage of new integrated Graphical tooling within WebSphere Message Broker to speed development.

Developers can take advantage of improved usability when creating models for text and binary data, through new guided authoring wizards. They also have the ability to create models by marking up example data. Additionally, model definitions can be developed and tested fully in the WebSphere Message Broker toolkit environment without deploying to a running broker instance.

- **Reliable communication with Web Services Reliable Messaging**

As companies expand their use of web services and XML communications, provision of reliability is increasingly important in both internal and business-to-business scenarios. For certain services, delivery of SOAP messages needs to be assured, without duplication, and when connections or endpoints are temporarily unavailable.

WebSphere Message Broker V8.0 allows WS-RM to be configured on a Message Broker flow. This is an administrative task that does not affect the flow design. An enhanced policy set editor allows customization of WS-RM behavior, including whether message order within a sequence should be maintained.

- **New Hypervisor Edition for IBM AIX**

WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX supports deployment of WebSphere Message Broker virtual images into PowerVM™ environments. It includes WebSphere Message Broker V8.0, WebSphere MQ V7.0.1, and the IBM AIX operating system for use with PowerVM environments. This offering can be dispensed to easily deploy and manage messaging solutions in a private cloud and can help reduce installation and configuration time to rapidly deploy WebSphere Message Broker messaging solutions.

WebSphere Message Broker Hypervisor Edition is already available in a number of configurations, and the WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX now supports deployment of WebSphere Message Broker virtual images into PowerVM environments.

Using WebSphere Message Broker Hypervisor Edition enables better utilization of hardware and faster response to demands for newly deployed systems. This can help to reduce the costs of both hardware and software operation and maintenance costs. By deploying virtual images, businesses can also ensure that systems are built with a known, stable, and tested configuration, reducing the potential for errors and ensuring rapid deployment of a working system, whether for development, test, or production.

## **New and renamed modes of operation**

The new Express Edition complements the existing modes of operation available to licensed clients. The mode of operation may be selected at any time, subject to purchase license entitlement. Existing clients may select any mode of operation at the time of deploying a broker and are not required to reinstall their existing WebSphere Message Broker media. WebSphere Message Broker V8.0 offers:

- **Express Edition** provides an entry-level starting point to deploy an ESB with the option to grow to full function and performance. It has restricted features and is limited to one process (execution group).

- **Standard Edition** offers a full-feature mode of operation, but is limited to one process. This edition provides an intermediate ESB with the ability to grow as your business needs increase. It was previously named Starter Edition.
- **Advanced Edition** is the full-feature edition of WebSphere Message Broker with no function or capability restrictions imposed. It is the default mode of operation. It was previously named Enterprise Edition.

**Hypervisor Editions for Red Hat Enterprise Linux and IBM AIX** comprise a combination of WebSphere Message Broker Enterprise Edition, WebSphere MQ, and the operating system compatible with the supported hypervisor, optimized to run in server virtualization environments.

**Remote Adapter Deployment (RAD) Edition** enables deployment of adapters for connecting to applications and other data sources, including databases.

### **Maximizing the value of your IBM Software investment**

IBM Software Subscription and Support is one of the most cost-effective ways for your business to ensure that your users have access to the latest technology. Whether you choose to upgrade and how you choose to upgrade is always up to you. You manage your upgrade cycles in the way that works best for your business. A comprehensive product upgrade and Technical Support solution, IBM Software Subscription and Support, available through IBM Passport Advantage® and Passport Advantage Express, delivers:

- Product upgrades
- New releases and new versions
- Phone and technical support

To download upgrades to your licensed IBM Software, sign in to Passport Advantage Online.

<http://www.ibm.com/software/passportadvantage>

For information on the benefits of migrating to WebSphere Message Broker V8.0, visit

<http://www-01.ibm.com/software/integration/messagebrokerproductline/versions/index.html>

### **Accessibility by people with disabilities**

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A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

### **Section 508 of the US Rehabilitation Act**

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WebSphere Message Broker V8.0, WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX, and WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86 are capable, as of December 16, 2011, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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## **Product positioning**

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The WebSphere family includes software products to meet diverse integration needs as they span numerous programming models, varying qualities of service, and

multiple data types. Whether you are looking to exchange a limited amount of data between applications, services, and systems, or implement an enterprise-wide SOA, you can meet current and future needs with WebSphere.

WebSphere Message Broker makes full use of the transport and connectivity options provided by WebSphere MQ, delivering additional routing and transformation capabilities, as well as other functionality to implement or extend an ESB.

For additional information about WebSphere Message Broker, visit

<http://www.ibm.com/software/integration/wbmessagebroker>

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## Program number

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Program name	Program number
IBM WebSphere Message Broker V8.0	5724-J05
IBM WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX	5725-B71
IBM WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86	5725-B72

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## Education support

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IBM training provides education to support IBM offerings world wide.

The core training offerings for WebSphere Message Broker are listed below. Versions of these courses will be available for WebSphere Message Broker V8. Many countries will offer these courses in classroom, instructor-led online, and self-paced formats. Refer to your country's IBM education delivery organization for specific course codes and class schedules. These courses teach WebSphere Message Broker skills that are appropriate for distributed platforms or z/OS®. However student labs will be performed on a distributed platform in most countries.

- **IBM WebSphere Message Broker System Administration Workshop.** This course teaches students how to perform essential configuration and administrative tasks for the WebSphere Message Broker environment using the WebSphere Message Broker Toolkit, WebSphere Message Broker Explorer, and command-line interfaces. This includes installing and configuring the Message Broker environment, creating and configuring a broker, ensuring efficient operation of a broker, backing up and restoring the WebSphere Message Broker environment, configuring security parameters, and using tracing and debugging tools for problem determination and resolution. Additional topics include product requirements planning as well as performance monitoring and tuning. Lab exercises also provide hands-on experience with the publish/subscribe message topology, WebSphere Message Broker web services and security, and extending the base functionality of WebSphere Message Broker by implementing user-defined extensions and SupportPacs.
- **IBM WebSphere Message Broker Developer Workshop.** This course provides intermediate-level developer skills for IBM WebSphere Message Broker, with a focus on using WebSphere Message Broker to develop, deploy, and support platform-independent message flow applications. Students learn about the components of the WebSphere Message Broker development and runtime environments and how to construct message flows that use ESQL, Java™, and XSL transform (XSLT) as well as how to use databases and maps in message flows. They also learn to implement application connectivity by using WebSphere Message Broker to create message flows that use web services, Java messaging services (JMS), and WebSphere MQ message transport mechanisms. Additional topics include message flow problem determination and error analysis. In this course students will learn to write more efficient message flows by applying the concepts of message parsing, serialization, and message modeling and they

will also explore advanced topics such as how to extend the functionality of WebSphere Message Broker by using adapters and other WebSphere products.

For additional information, or to check for the latest updates, visit the IBM Education web page at

<http://www.ibm.com/services/learning/>

Select your country to view the available offerings. This site has links to descriptions for all classroom, instructor-led online, and self-study courses available in each country. The web page also contains information on course schedules and enrollment procedures.

If you cannot find the information you need on the web page, call IBM Education at 800-IBM-TEACH (426-8322) for additional details or to enroll in a course.

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## Offering Information

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Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage website

<http://www.ibm.com/software/passportadvantage>

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## Publications

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A *Quick Start Guide* is shipped with this program.

Online product documentation is integrated within the product and is also supplied on the Quick Start CD-ROM.

### IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

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## Technical information

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### Specified operating environment

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#### *Hardware requirements*

#### **WebSphere Message Broker V8.0**

#### **IBM AIX**

64-bit IBM System p® systems only, capable of running the required level of a compatible operating system with enough storage to meet the requirements of WebSphere Message Broker.

Any hardware capable of running other trademarked AIX systems from IBM or other vendors that have passed a set of certification tests for compliance with the IBM AIX application binary and programming interfaces.

## **HP-UX on Itanium™**

Itanium systems: Any hardware that is explicitly compatible and fully capable of running the specified operating system, all the corresponding supporting software shown below, and any associated applications unmodified.

## **Linux on System p**

64-bit System i® and System p IBM POWER® processor-based systems only, capable of running the required level of a compatible operating system with enough storage to meet the requirements of WebSphere Message Broker.

## **Linux on x86**

x86 technology-compatible PC hardware, capable of running the required level of a compatible operating system with enough storage to meet the requirements of the WebSphere Message Broker.

## **Linux on x86-64**

AMD64 and EM64T technology-compatible PC hardware, capable of running the required level of a compatible operating system with enough storage to meet the requirements of the WebSphere Message Broker.

## **Linux on System z®**

Any server capable of running one of the listed Linux for System z releases.

## **Solaris x86-64**

AMD64, EM64T, and compatible processors: Any hardware that is explicitly compatible and fully capable of running the specified operating system, all the corresponding supporting software shown below, and any associated applications unmodified.

## **Solaris SPARC**

Sun Microsystems SPARC processor machines.

## **Microsoft Windows™**

Windows x86 technology-compatible PC hardware, capable of running the required level of a compatible operating system with enough storage to meet the requirements of the WebSphere Message Broker.

## **WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX**

- Any hardware that is explicitly compatible and fully capable of running PowerVM, IBM AIX, WebSphere Message Broker V8, and all corresponding supporting software
- IBM Workload Deployer, with minimum firmware level V3.1

## **WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux**

- Any hardware that is explicitly compatible and fully capable of running Red Hat Enterprise Linux 5.5, WebSphere Message Broker V8, and all corresponding supporting software
- IBM Workload Deployer, with minimum firmware level V3.1.

For the latest information, visit

<http://www-306.ibm.com/software/integration/wbmessagebroker/requirements>



## **Software requirements**

### **WebSphere Message Broker V8.0**

#### **AIX**

- AIX 6.1 (Technology Level 5)
- AIX 7.1
- WebSphere MQ V7.0.1

#### **HP-UX on Itanium**

- HP-UX 11i V2 (11.23) for Itanium
- HP-UX 11i V3 (plus PHCO\_38048) for Itanium
- WebSphere MQ V7.0.1

#### **Linux on POWER**

- Red Hat Enterprise Linux AS V5.3
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 10 SP3
- SUSE Linux Enterprise Server (SLES) 11
- WebSphere MQ V7.0.1

#### **Linux on x86**

- Red Hat Enterprise Linux AS V5.3
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 10 SP3
- SUSE Linux Enterprise Server (SLES) 11
- WebSphere MQ V7.0.1

#### **Linux on x86-64**

- Red Hat Enterprise Linux AS V5.3
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 10 SP3
- SUSE Linux Enterprise Server (SLES) 11
- WebSphere MQ V7.0.1

#### **Linux on System z**

- Red Hat Enterprise Linux AS V5.3
- Red Hat Enterprise Linux AS V6
- SUSE Linux Enterprise Server (SLES) 10 SP3
- SUSE Linux Enterprise Server (SLES) 11
- WebSphere MQ V7.0.1

#### **Solaris on SPARC**

- Solaris 10
- WebSphere MQ V7.0.1

#### **Solaris on x86-64**

- Solaris 10

- WebSphere MQ V7.0.1

### **Microsoft Windows x86**

- Windows XP Professional with SP2 (32bit and 64bit)
- Windows Server 2003 Standard and Enterprise (32bit and 64bit) Edition
- Windows Server 2003 R2 Standard and Enterprise (32bit and 64bit) Edition
- Windows Server 2008 Standard and Enterprise (32bit and 64bit) Edition
- Windows Server 2008 R2 Standard and Enterprise Edition
- Windows 7 Professional, Enterprise and Ultimate (32bit and 64bit) Edition
- WebSphere MQ V7.0.1

### **Microsoft Windows x86-64**

- Windows Server 2008 R2 Standard and Enterprise Edition
- Windows 7 Professional, Enterprise and Ultimate Edition
- WebSphere MQ V7.0.1

### **WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX**

PowerVM must be installed on the system targeted for deployment of WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX.

The IBM AIX V6.1 operating system is included in WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX. However, customers must purchase the license for IBM AIX separately as part of their Power® System hardware and PowerVM setup. All other required software is provided with WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX.

### **WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux**

VMware ESX must be installed on the system targeted for deployment of WebSphere Message Broker Hypervisor Edition for Red Hat Enterprise Linux. All other required software is provided with WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux.

For detailed requirements for all editions of WebSphere Message Broker, visit

<http://ibm.com/software/integration/wbmessagebroker/requirements/>

**Note:** Before installing any new products, ensure that you review your current Preventative Service Planning (PSP) information.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

### **Planning information**

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#### ***Customer responsibilities***

You must provide at least the minimum hardware and software environments in which the licensed programs operate.

Problem determination (PD) is a customer responsibility. PD is an assessment of whether a problem is caused by hardware or software. It is complete only when the cause of the problem is identified. This assessment includes examination of available symptoms using the PD procedures documented in the product.

Problem source identification (PSI) is a customer responsibility. PSI begins when software is determined to be the source of the problem. It includes tracing the source of the program to a host system control program (SCP), an application program, or another source. Assisting the client with PSI is an IBM service and support responsibility.

## WebSphere Adapters

WebSphere Adapters V7.0 for SAP, Siebel, PeopleSoft, and JD Edwards are provided with WebSphere Message Broker. Usage is licensed free of charge as part of the Message Broker Toolkit. For non-development purposes, you must purchase a separate license entitlement for the appropriate WebSphere Adapter being deployed. Refer to the WebSphere Message Broker license text for details of program-unique terms. Refer to the [Ordering information](#) section for the license part numbers.

Charge metrics definitions for WebSphere Adapters:

- **Per application instance.** An entitlement is required for each instance of the adapter. An adapter in a test, development, staging, or production environment is each considered to be a separate instance of the application and each must have an entitlement (unless covered by the license for Message Broker toolkit). As well, multiple application instances in a single environment are each considered to be separate instances of the application and each must have an entitlement.
- **Per establishment.** An establishment is a single physical site including the surrounding campus and satellite offices located within 50 kilometers (31 miles) of licensee's site address. Licensee must obtain an entitlement for each establishment at or for which the adapter will be used. Licensee is permitted to deploy an unlimited number of copies of the adapter within the establishment. An entitlement for an establishment is unique to that establishment and may not be shared, nor may it be reassigned other than for the permanent closing of the establishment.

Refer to the standard license text for each of the supported WebSphere Adapters V7.0 as follows:

SAP Software V7.0

<http://www-03.ibm.com/software/sla/sladb.nsf/displaylis/FC29EC7CDE7FDF35852576A2004B2236?OpenDocument>

Siebel Business Applications V7.0

<http://www-03.ibm.com/software/sla/sladb.nsf/displaylis/42DCC6A2BC0C520B852576A2004B1FAE?OpenDocument>

PeopleSoft Enterprise V7.0

<http://www-03.ibm.com/software/sla/sladb.nsf/displaylis/EEDFFAFAA60BAB5F852576A2004B1D40?OpenDocument>

JD Edwards EnterpriseOne V7.0

<http://www-03.ibm.com/software/sla/sladb.nsf/displaylis/382A291833C381D2852576A2004B1A74?OpenDocument>

## Packaging

### WebSphere Message Broker V8.0

The WebSphere Message Broker package contains:

- WebSphere Message Broker CD-ROMs for AIX, HP-UX on Itanium, Solaris on SPARC, Solaris on x86-64, Linux on System z, Linux on POWER, and Linux on x86-64

- WebSphere Message Broker DVDs for Microsoft Windows on x86, Microsoft Windows on x86-64, Linux on x86, and Linux on x86-64
- WebSphere MQ V7.0.1.3 CD-ROMs
- WebSphere Message Broker V8.0 Quick Start CD-ROM

### **WebSphere Message Broker Hypervisor Editions**

WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86 and WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX are available for electronic download only.

The download packages contain:

#### **WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86**

- WebSphere Message Broker Hypervisor Edition V8.0 Quickstart Guide
- WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86 (multiple files)
- WebSphere Message Broker V8.0 for multiplatforms (multiple files)

#### **WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX**

- WebSphere Message Broker Hypervisor Edition V8.0 Quickstart Guide
- WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX (multiple files)
- WebSphere Message Broker V8.0 for multiplatforms (multiple files)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

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## **Software Services**

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based Software Services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

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## **Ordering information**

This product is available only via Passport Advantage. It is not available as shrinkwrap.

Product group: webSphere

Product Identifier	Description	(PID)
IBM webSphere Message Broker v8.0		5724-J05
IBM webSphere Message Broker Hypervisor Edition v8.0 for IBM AIX		5725-B71

IBM WebSphere Message Broker 5725-B72  
 Hypervisor Edition V8.0 for Red  
 Hat Enterprise Linux Server for x86

Product category: Application Integration Middleware Other

**Charge metric**

Program name	PID number	Charge unit description
IBM WebSphere Message Broker V8.0	5724-J05	Processor Value Unit
IBM WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX	5725-B71	Processor Value Unit
IBM WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86	5725-B72	Processor Value Unit
WebSphere Adapter for JD Edwards EnterpriseOne	5724-N41	Application Instance
WebSphere Adapter for JD Edwards EnterpriseOne	5724-N41	Establishment
IBM WebSphere Adapter for PeopleSoft Enterprise	5714-L81	Per Application Instance
IBM WebSphere Adapter for PeopleSoft Enterprise	5714-L81	Establishment
IBM WebSphere Adapter for SAP Software	5724-L79	Per Application Instance
IBM WebSphere Adapter for SAP Software	5724-L79	Establishment
IBM WebSphere Adapter for SAP Software System z	5724-L79	Establishment
IBM WebSphere Adapter for Siebel Business Applications	5724-L80	Application Instance
IBM WebSphere Adapter for Siebel Business Applications	5724-L80	Establishment

**Processor Value Unit (PVU)**

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

[http://www.ibm.com/software/lotus/passportadvantage/pvu\\_licensing\\_for\\_customers.html](http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html)

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the web page below). If using Full Capacity licensing, Licensee must obtain PVU entitlements sufficient to cover all activated processor cores\* in the physical hardware environment made available to or managed by the Program, except for those servers from which the Program has been permanently removed. If using Virtualization Capacity licensing, Licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the Program, as defined according to the Virtualization Capacity License Counting Rules at

\* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes:

- Some programs may require licenses for the program **and** what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

Product description	Product ID
IBM WebSphere Message Broker V8.0	5724-J05
IBM WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX	5725-B71
IBM WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86	5725-B72

## Passport Advantage

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Here is the complete listing of part numbers for WebSphere Message Broker V8.0 (5724-J05).

Description	Part number
IBM WebSphere Message Broker	
Per Processor Value Unit	
License + Software S&S 12 months	D56P3LL
Annual Software S&S Renewal 12 months	E02AULL
Software S&S Reinstatement 12 months	D56P4LL
IBM WebSphere Message Broker Idle Standby	
Per Processor Value Unit	
License + Software S&S 12 months	D0GH4LL
Annual Software S&S Renewal 12 months	E0AM0LL
Software S&S Reinstatement 12 months	D0GH5LL
IBM WebSphere Message Broker Standard Edition	
Per Processor Value Unit	
License + Software S&S 12 months	D03S0LL
Annual Software S&S Renewal 12 months	E04NRLL
Software S&S Reinstatement 12 months	D03S1LL
IBM WebSphere Message Broker Standard Edition Idle Standby	

Per Processor Value Unit	
License + Software S&S 12 months	D0GG5LL
Annual Software S&S Renewal 12 months	E0ALMLL
Software S&S Reinstatement 12 months	D0GG6LL

IBM WebSphere Message Broker Remote Adapter Deployment

Per Processor Value Unit	
License + Software S&S 12 months	D03S2LL
Annual Software S&S Renewal 12 months	E04NSLL
Software S&S Reinstatement 12 months	D03S3LL

IBM WebSphere Message Broker Remote Adapter Deployment Idle Standby

Per Processor Value Unit	
License + Software S&S 12 months	D0GHWLL
Annual Software S&S Renewal 12 months	E0AMGLL
Software S&S Reinstatement 12 months	D0GHXLL

IBM WebSphere Message Broker Express Edition

Per Processor Value Unit	
License + Software S&S 12 months	D0L5KLL
Annual Software S&S Renewal 12 months	E0CR5LL
Software S&S Reinstatement 12 months	D0L5LLL

Here is the complete listing of part numbers for IBM WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX (5725-B71).

Description	Part number
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IBM WebSphere Message Broker Hypervisor Edition for IBM AIX

Per Processor Value Unit	
License + Software S&S 12 months	D0LESLL
Annual Software S&S Renewal 12 months	E0CUULL
Software S&S Reinstatement 12 months	D0LETLL

Here is the complete listing of part numbers for IBM WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86 (5725-B72).

Description	Part number
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IBM WebSphere Message Broker Hypervisor Edition for Red Hat Enterprise Linux Server for x86

Per Processor Value Unit	
License + Software S&S 12 months	D0GECLL
Annual Software S&S Renewal 12 months	E0AKXLL
Software S&S Reinstatement 12 months	D0GEDLL

Here is the complete listing of part numbers for IBM WebSphere Adapters V7.0.

Description	Part number
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IBM WebSphere Adapter for JD Edwards EnterpriseOne

Per Application Instance(s)	
License + Software S&S 12 months	D59LVLL
Annual Software S&S Renewal 12 months	E031YLL
Software S&S Reinstatement 12 months	D59LWLL

IBM WebSphere Adapter for JD Edwards EnterpriseOne

Per Establishment	
License + Software S&S 12 months	D59LTLL
Annual Software S&S Renewal 12 months	E031XLL
Software S&S Reinstatement 12 months	D59LULL

IBM WebSphere Adapter for PeopleSoft Enterprise

Per Application Instance(s)	
License + Software S&S 12 months	D555ZLL
Annual Software S&S Renewal 12 months	E01TZLL
Software S&S Reinstatement 12 months	D5560LL

IBM WebSphere Adapter for PeopleSoft Enterprise

Per Establishment	
License + Software S&S 12 months	D555VLL
Annual Software S&S Renewal 12 months	E01TXLL
Software S&S Reinstatement 12 months	D555WLL

IBM WebSphere Adapter for SAP Software

Per Application Instance(s)	
License + Software S&S 12 months	D555XLL
Annual Software S&S Renewal 12 months	E01TYLL
Software S&S Reinstatement 12 months	D555YLL

IBM WebSphere Adapter for SAP Software

Per Establishment	
License + Software S&S 12 months	D5561LL
Annual Software S&S Renewal 12 months	E01U0LL
Software S&S Reinstatement 12 months	D5562LL

IBM WebSphere Adapter for SAP Software for System z

Per Establishment	
License + Software S&S 12 months	D5832LL
Annual Software S&S Renewal 12 months	E02HLL
Software S&S Reinstatement 12 months	D5834LL

IBM WebSphere Adapter for Siebel Business Applications

Per Application Instance(s)	
License + Software S&S 12 months	D5566LL
Annual Software S&S Renewal 12 months	E01U2LL
Software S&S Reinstatement 12 months	D5567LL

IBM WebSphere Adapter for Siebel Business Applications

Per Establishment	
License + Software S&S 12 months	D5564LL
Annual Software S&S Renewal 12 months	E01U1LL
Software S&S Reinstatement 12 months	D5565LL

**Passport Advantage trade-up**

You must have previously acquired licenses for the following precursor products to be eligible to acquire equivalent licenses of the trade-up products.

Precursor product	Trade-up product	Trade-up part number
WebSphere Message Broker Starter Edition PVU	WebSphere Message Broker Trade-up PVU License + SW S&S 12 Months	D03PWLL
WebSphere Message Broker Starter Edition for zEnterprise BladeCenter® Extension Linux on System z	WebSphere Message Broker for zEnterprise™ BladeCenter Extension Linux on System z Trade-up PVU License + SW S&S 12 Months	D03PVLL
Qualified Competitor for zEnterprise BladeCenter Extension Linux on System z	WebSphere Message Broker for zEnterprise BladeCenter Extension Linux on System z Trade-up PVU License + SW S&S 12 Months	D61T5LL
Qualified Competitor PVU	WebSphere Message Broker	D61T4LL



	Trade-up PVU License + SW S&S 12 Months	
WebSphere Message Broker Starter Edition Idle Standby PVU	WebSphere Message Broker Idle Standby Trade-up PVU License + SW S&S 12 Months	D0GH6LL
WebSphere Message Broker Starter Edition Idle Standby PVU for Linux on System z	WebSphere Message Broker Idle Standby for Linux on System z Trade-up PVU License + SW S&S 12 Months	D0GH3LL
WebSphere Message Broker	WebSphere Message Broker Hypervisor Edition for Red Hat Enterprise Linux Server for x86 Trade-up PVU License + SW S&S 12 Months	D0GEELL
WebSphere Message Broker	WebSphere Message Broker Hypervisor Edition for IBM AIX Trade-up PVU License + SW S&S 12 Months	D0LEULL

Consult your IBM representative if you have any questions.

Clients with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Entitled maintenance offerings description	Part number
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IBM WebSphere Message Broker V8.0 Multiplatform Multilingual Media Pack	BA12YML
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**Cross-platform product for use on System z Integrated Facility for Linux (IFL) engines**

Order the part numbers that follow when the product is intended to run on the Linux operating system on System z IFL engines. If the product is not intended to run on the Linux operating system on System z IFL engines, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Program name/Description	Part number
IBM WebSphere Message Broker	
Per Processor Value Unit for zEnterprise BladeCenter Extension and Linux on System z License + Software S&S 12 mo	D56MWLL
for zEnterprise BladeCenter Extension and Linux on System z Annual Software S&S Renewal 12 mo	E02AGLL
for zEnterprise BladeCenter Extension and Linux on System z Software S&S reinstatement 12 mo	D56MXLL
IBM WebSphere Message Broker Idle Standby	
Per Processor Value Unit Linux on System z License + Software S&S 12 mo	D0GH1LL
Linux on System z Annual Software S&S Renewal 12 mo	E0ALZLL
Linux on System z Software S&S reinstatement 12 mo	D0GH2LL
IBM WebSphere Message Broker Standard Edition	
Per Processor Value Unit for zEnterprise BladeCenter Extension and	

Linux on System z License + Software S&S 12 mo	D03S4LL
for zEnterprise BladeCenter Extension and	
Linux on System z Annual Software S&S Renewal 12 mo	E04NTLL
for zEnterprise BladeCenter Extension and	
Linux on System z Software S&S reinstatement 12 mo	D03S5LL

#### IBM WebSphere Message Broker Standard Edition Idle Standby

##### Per Processor Value Unit

Linux on System z License + Software S&S 12 mo	D0GG3LL
Linux on System z Annual Software S&S Renewal 12 mo	E0ALLLL
Linux on System z Software S&S reinstatement 12 mo	D0GG4LL

#### IBM WebSphere Message Broker Remote Adapter Deployment

##### Per Processor Value Unit

for zEnterprise BladeCenter Extension and	
Linux on System z License + Software S&S 12 mo	D0BLZLL
for zEnterprise BladeCenter Extension and	
Linux on System z Annual Software S&S Renewal 12 mo	E084WLL
for zEnterprise BladeCenter Extension and	
Linux on System z Software S&S reinstatement 12 mo	D0BM0LL

#### IBM WebSphere Message Broker Remote Adapter Deployment Idle Standby

##### Per Processor Value Unit

Linux on System z License + Software S&S 12 mo	D0GHSLL
Linux on System z Annual Software S&S Renewal 12 mo	E0AMDLL
Linux on System z Software S&S reinstatement 12 mo	D0GHTLL

#### IBM WebSphere Message Broker Express Edition

##### Per Processor Value Unit

Linux on System z License + Software S&S 12 mo	D0L63LL
Linux on System z Annual Software S&S Renewal 12 mo	E0CR9LL
Linux on System z Software S&S reinstatement 12 mo	D0L64LL

#### IBM WebSphere Adapter for SAP Software

##### Per Establishment

Linux on System z License + Software S&S 12 mo	D0B3HLL
Linux on System z Annual Software S&S Renewal 12 mo	E07T1LL
Linux on System z Software S&S reinstatement 12 mo	D0B3ILL

#### IBM WebSphere Adapter for PeopleSoft Enterprise

##### Per Establishment

Linux on System z License + Software S&S 12 mo	D0B2XLL
Linux on System z Annual Software S&S Renewal 12 mo	E07SMLL
Linux on System z Software S&S reinstatement 12 mo	D0B2YLL

#### IBM WebSphere Adapter for Siebel Business Applications

##### Per Establishment

Linux on System z License + Software S&S 12 mo	D0B5HLL
Linux on System z Annual Software S&S Renewal 12 mo	E07TZLL
Linux on System z Software S&S reinstatement 12 mo	D0B5ILL

### On/Off Capacity on Demand (CoD)

Part  
number

Description

ASQW1LL	IBM WebSphere Message Broker per processor day On/Off CoD temporary use charge
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### **License Information form number**

Program name	LI form number
IBM WebSphere Message Broker V8.0	L-AFOS-8NUDTK
IBM WebSphere Message Broker Hypervisor Edition V8.0 for IBM AIX	L-AFOS-8KDK77
IBM WebSphere Message Broker Hypervisor Edition V8.0 for Red Hat Enterprise Linux Server for x86	L-AFOS-8LAJNF

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

### **Limited warranty applies**

Yes

### **Limited warranty**

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation

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IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

### ***Program technical support***

Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

IBM WebSphere Message Broker Hypervisor Edition V8.0 includes entitlement for the IBM WebSphere Message Broker V8.0 program. When using the IBM WebSphere Message Broker program, you must have a separate license and support entitlement for the operating system. The operating system included in the WebSphere Message Broker Hypervisor Edition offering is restricted to support of the virtualized product edition.

### ***Money-back guarantee***

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

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### ***Volume orders (IVO)***

No

### ***Passport Advantage applies***

Yes, and through the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

### ***Usage restriction***

Yes

### **IBM WebSphere MQ**

The Program includes a copy of IBM WebSphere MQ V7.0.1. Licensee is authorized to install and use IBM WebSphere MQ V7.0.1 on a limited basis in association with Licensee's use of the Program components, as follows:

- For every deployment of the Broker Runtime component, Licensee is authorized to install and use one copy of IBM WebSphere MQ V7.0.1 in accordance with the terms and conditions of that program.
- That copy of IBM WebSphere MQ V7.0.1 may be used only for messages generated or consumed by the components of the Program, and not for any other purpose.
- To use IBM WebSphere MQ V7.0.1 for any other purpose, Licensee must acquire a separate (unrestricted) Proof of Entitlement which authorizes such use of IBM WebSphere MQ V7.0.1.

### **IBM WebSphere MQ File Transfer Edition**

WebSphere Message Broker V8.0 includes FTEInput and FTEOutput nodes. These provide the ability to send files as messages over WebSphere MQ to a WebSphere MQ File Transfer Edition endpoint, with Broker acting as an "FTE Client".

WebSphere MQ File Transfer Edition can be licensed for use as a "FTE Server" or "FTE Client". The WebSphere Message Broker license provides entitlement such that a separate "FTE Client" license is not required in order to use the FTEInput and FTEOutput nodes.

Other uses of WebSphere MQ File Transfer Edition will require separate license entitlement.

### **Development usage**

The program license provides entitlement for licensees to make use of the WebSphere Message Broker runtime, WebSphere Message Broker toolkit, and WebSphere MQ for development and functional test uses, deployed as part of the licensee's internal development, unit, and functional testing environments. See the product license for further details and usage definitions.

### **Software Subscription and Support applies**

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**IBM Operational Support Services - SoftwareXcel**

No

**Other support**

Passport Advantage

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

Not applicable.

**On/Off Capacity on Demand (CoD)**

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To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Amendment for iSeries® and pSeries® Temporary Capacity On Demand - Software (Z125-6907), must be signed prior to use.

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**Prices**

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## Corrections

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**(Corrected on December 21, 2011)**

Revision was made in the "Terms and conditions" section.

**(Corrected on November 7, 2011)**

Revisions were made in the "At a glance," "Overview," "Description," and "Terms and conditions" sections.