



# IBM WebSphere Enterprise Service Bus Registry Edition V7.0 maximizes agility and visibility of connectivity in your SOA to achieve its full business value

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## At a glance

WebSphere® Enterprise Service Bus Registry Edition V7.0 is a robust, scalable, and flexible infrastructure solution that provides business systems with broad-scale dynamic service connectivity and visibility to data and applications in the network. It offers service mediation, hosting, registration, reuse, dynamism, and control on the market-leading internet-standard application infrastructure - a single platform for integration, applications, and processes - to connect to a wide variety of backend systems.

The solution combines WebSphere Enterprise Service Bus with WebSphere Service Registry and Repository into a single runtime package for dynamic service connectivity, reuse, visibility and control, helping to mature and extend your service-oriented architecture (SOA) initiatives for full business value.

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

## Overview

WebSphere Enterprise Service Bus Registry Edition V7.0 is a robust, scalable, and flexible infrastructure solution that provides business systems with broad-scale dynamic service connectivity and visibility to data and applications in the network.

The Enterprise Service Bus (ESB) and the service registry and repository form key components in any agile SOA solution. The ESB prevents systems from becoming interdependent and hard to change, reducing the cost and complexity of connectivity while enabling agility required for business growth. The service registry and repository promotes service reuse and control, enabling you to publish, find, enrich, manage, and govern services and policies. Used together, they help you mature SOA adoption, enabling a set of key scenarios for service reuse with a flexible and dynamic ESB:

- Dynamic end point selection becomes possible, improving operational flexibility
- Mediation policies, configured by a Web-based business space widget, can be enforced
- New services (delivered by WebSphere ESB through mediation) can be published (to WebSphere Service Registry and Repository ) for lookup and reuse by more consumers

- Changes to services (created or consumed) can be governed
- Service Federation Management becomes possible - so that you can share select services across connectivity technologies and organizational boundaries.

WebSphere Enterprise Service Bus Registry Edition V7.0 is composed of:

- WebSphere Enterprise Service Bus V7.0
- WebSphere Service Registry and Repository V7.0

This is a comprehensive package connectivity solution that:

- Exposes existing applications and data as new business services without impact to the current IT environment.
- Decouples complex integration logic from each application with a central connectivity solution, eliminating point-to-point programming and providing policies to dynamically control the connectivity logic.
- Extends integration reach with extensive support for a wide range of open standards, communication protocols bindings, message format bindings, and application adaptors.
- Integrates seamlessly with existing WebSphere Application Server, SOA and BPM environments for an integrated SOA platform.
- Provides Service Federation Management for reuse of selected services across domains, technologies, and organizational boundaries.
- Allows you to create open, standardized services and reusable assets that can be used by multiple lines of business.
- Increases the visibility of the exposed service interfaces, promoting reuse of service assets across multiple service implementations, thereby enhancing developer productivity.
- Enables you to store, catalog, flexibly organize assets and services, and enforce guidelines to prevent uncoordinated or unapproved changes with adverse effects.
- Provides governance of the service consumers to track service usage and risk control.
- Enables you to discover what services are running in your environments in order to dynamically select services that are available and to automatically provision services that require invoking.

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## Key prerequisites

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Tooling: WebSphere Integration Developer

For details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

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## Planned availability date

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October 8, 2010

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## Description

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An SOA is the next evolutionary step to help IT organizations meet their ever-more-complex challenges while supporting business growth, flexibility, and innovation. Materializing this potential depends on broad-scale connectivity and how well they manage service reuse throughout their environment.

WebSphere Enterprise Service Bus Registry Edition V7.0 combines flexible connectivity infrastructure for hosting and integrating services provided by WebSphere Enterprise Service Bus V7.0 with the visibility and governance capabilities of WebSphere Service Registry and Repository V7.0.

For more information on each of the bundled product releases, visit:

- WebSphere Enterprise Service Bus V7  
<http://www.ibm.com/software/integration/wsesb>
- WebSphere Service Registry and Repository V7  
<http://www.ibm.com/software/integration/wsrr/>

## **WebSphere Enterprise Service Bus**

WebSphere ESB provides a flexible connectivity infrastructure for integrating data and applications as services. It is optimized with WebSphere Application Server for service mediation and hosting on an integrated SOA platform, with Web-based user interfaces for business and IT users to control mediation policies, dynamic endpoint lookup, and system health. WebSphere ESB easily extends to WebSphere Process Server, offering the connectivity foundation for business process solutions on the WebSphere platform. Together this enables a single platform for integration, applications, and processes.

Key capabilities of WebSphere ESB include:

- Matches and routes communication between services
- Converts between any transport protocols
  - Native connectivity bindings for HTTP, Web Services SOAP/HTTP and SOAP/JMS, JMS and MQ messaging, J2EE Applications (Session EJB), Native SCA (module to module), Enterprise Information Systems, Java™ Connectivity Architecture (JCA) adapters
  - Supported JCA technology adapters for JDBC for Databases (DB2®, Oracle, etc), Flat Files, FTP, Email, Lotus® Domino®, System i®, CICS®, IMS™
  - Supported JCA application adapters for SAP, Oracle E-Business Suite, Siebel, PeopleSoft, JDEdwards
- Transform between any data format
  - XML, XML Schema, SOAP, SOAP with attachments
  - CSV, Cobol, C Struct, Delimited, Atom, JSON
  - Leverages XSLT for data transformation
  - Integrates with WebSphere Transformation Extender for industry standard accelerators (NACHA, SEPA, SWIFT, Acord, HIPAA, HL7, EDI, ODETTE), skills reuse, and advanced mapping needs
- Identifies and distributes business events
  - Supports publish/subscribe
  - Supports common event infrastructure
- Exploiting WebSphere Application Server as the common application infrastructure for integration, applications, and processes - streamlining IT operations while delivering business-critical qualities of service such as transactional integrity, security, performance, scaling, and high availability.
- Supported by WebSphere Integration Developer as the tooling for mediations and configurable connectivity patterns such as service gateways, service proxies, service translators, and service selectors.
- Leveraging WebSphere Service Registry and Repository for dynamic service lookup, mediation policy resolution, and publication of services for reuse.

## **WebSphere Service Registry and Repository**

WebSphere Service Registry and Repository delivers management and governance capabilities that allow you to get the most business value from your SOA. It facilitates storing, accessing, and managing service information - called service metadata - to easily select, invoke, govern, and reuse your services. WebSphere Service Registry and Repository has tight integration with IBM SOA Foundation, an integrated, open standards-based set of software, best practices, and patterns for SOA.

**Encourage reuse:** The publish and find capabilities of WebSphere Service Registry and Repository promote service reuse in SOA projects by allowing greater visibility of and easier access to existing services.

- A service discovery engine discovers services not only on WebSphere Application Server, but on five other Application Server platforms as well, WebSphere Enterprise Service Bus and WebSphere Process Server allowing you to keep an accurate record of deployed services in your SOA.
- WebSphere Service Registry and Repository provides a browser based UI, as well as plug-ins for eclipse and .Net.
- WebSphere Service Registry and Repository exposes five APIs, (SOAP, Rest, Java, Atom and UDDI), along with a power query mechanism which can be leveraged by different systems to publish and find metadata.
- Faceted search offers a natural and user-friendly way to find services by allowing you to progressively refine search results using attributes, document types, or classification.
- Auto-completion suggest possible results, while end user is still typing to quickly complete their search.

**Increase agility of runtimes.** WebSphere Service Registry and Repository enables dynamic and efficient access to service information, mediation configuration, and policies by both runtime applications and processes that facilitate agile connectivity and operational efficiency.

- Out of box mediation primitives and nodes complete with caching to accelerate integration development for WebSphere Enterprise Service Bus, WebSphere Message Broker and WebSphere DataPower®.
- WebSphere Service Registry and Repository exposes five APIs, (SOAP, Rest, Java, Atom and UDDI), along with a power query mechanism which can be leveraged by different systems to publish and find metadata.

### **SOA Policy management**

WebSphere Service Registry and Repository enables policy management across the life cycle spanning all domains of policy.

- Provides a policy wizard to author policies, supporting 12 policy domains with template libraries ranging from design-time to run-time policies.
- Tracks and governs run-time policies along side the services to which they are applied.
- Keeps the relationships between various run-time policies and the associated services.
- Auto-discover existing policy sets on WebSphere Application Server V6.1, WebSphere Application Server version 7.0 and WebSphere Message Broker V6.1
- Enables runtimes dynamically to retrieve policies from WebSphere Service Registry and Repository and interpret at execution time.

### **Enable SOA governance in the service lifecycle**

- **Access control:** Control the visibility and access to service metadata for sharing and reuse by using role-based access.
- **Classify service:** Classifying services and related metadata into groups that are meaningful in the domain of your organization and that align with your business needs.
- **Impact analysis:** Graphical views allow you to intuitively understand the service relationships and dependencies.
- **Service life cycle:** You can implement best practices for service life-cycle management with the ability to promote services and life-cycle validations.
- **Governance profile:** To get you started easily and quickly, WebSphere Service Registry and Repository has a well-defined service model that includes templates, associated life cycles, governance policies with a generic validator, a classification system, roles, and perspectives.

**Enable governance and life-cycle management of high-value applications:**

WebSphere Service Registry and Repository helps your high-value applications to participate fully in enterprise SOA. Service-enabled applications from WebSphere MQ and CICS can be published in WebSphere Service Registry and Repository, enabling you to reuse, classify, describe, and govern these services like any other service in your SOA.

**Service Federation Management** enables an enterprise which has several independent islands of SOA, called domains, to allow service reuse that spans the domain boundaries. It manipulates the connectivity infrastructure of the individual service domains to establish enterprise-wide service visibility, service security, service management, and service governance.

- Enabling enterprise-wide service reuse seamlessly and transparently
- Allowing enterprises to secure, manage, monitor and govern one logical service connectivity fabric
- Creating a simple model for defining connectivity across heterogeneous domains

Provide IT flexibility that handles the necessary separation of concerns and responsibility required by the different service domains.

WebSphere Service Registry and Repository enables Service Governance needs of an enterprise. Its robust, industrial-strength capabilities help you efficiently manage access to, and governance of, services. Standard registry and repository functions for the entire software life cycle, well integrated with IBM SOA Foundation and other complementary third-party software solutions, make WebSphere Service Registry and Repository a valuable component of your SOA. Regardless of the level of SOA maturity in your enterprise, WebSphere Service Registry and Repository brings immediate benefits that can help accelerate your adoption of an SOA approach.

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**Accessibility by people with disabilities**

A U.S. 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)

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**Section 508 of the U.S. Rehabilitation Act**

Features of WebSphere Enterprise Service Bus Registry Edition V7.0 that support use by people with disabilities include:

- Ability to use assistive technologies such as screen readers and screen magnifier software
- Features to customize display attributes such as color, contrast, and font size
- Capability of operating using only the keyboard

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**Product positioning**

The WebSphere portfolio delivers several software products to meet your diverse integration needs as they span varying programming models, qualities of service, and multiple data types. Whether you are looking to create a single application or implement an enterprise-wide SOA, IBM designs WebSphere software to meet your evolving needs.

WebSphere Enterprise Service Bus Registry Edition is an integrated solution of an ESB and a registry repository to enable an agile connectivity infrastructure which can reduce operational cost and easily react to changes while providing governance of services and high-value applications.

WebSphere Service Registry and Repository is an integrated SOA Foundation product that lets you publish, find, enrich, manage and govern services in the SOA.

WebSphere ESB delivers Web services connectivity, JMS messaging, and service-oriented integration for fast implementation and deployment of an ESB with minimal need for programming.

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## Program number

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Program number	VRM	Program name
5725-B48	7.0.0	WebSphere Enterprise Service Bus Registry Edition

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## Education support

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Training is available for

- WebSphere Enterprise Service Bus, and
- WebSphere Service Registry and Repository

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

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

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

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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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Product documentation for WebSphere Enterprise Service Bus and WebSphere Service Registry and Repository can be obtained from the IBM Publications Center. Visit

<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 U.S.) 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.

**Specified operating environment**

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**Hardware requirements****WebSphere Enterprise Service Bus****AIX® on IBM POWER systems**

- Any system from the IBM POWER family of processors
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

**HP-UX on PA-RISC systems**

- PA-RISC processor
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

**HP-UX on IA64 systems**

- Intel® Itanium® 2 processor
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

**Linux® on x86 systems**

- Intel Pentium® at 3 GHz for single-core system, 2.4 GHz for dual cores, or faster; Intel EM64T or AMD Opteron (32-bit kernel support only)
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

**Linux on x86-64 systems**

- AMD Opteron or Intel EM64T (64-bit kernel support)
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

**Linux on POWER systems**

- Any system from the IBM POWER family of processors
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

**Linux on System z®**

- System z processor
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

**Sun Solaris on SPARC systems**

- Sun Solaris operating environment compatible SPARC at 440 MHz, or faster
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

### **Sun Solaris on x86-64 systems**

- AMD Opteron or Intel EM64T (64-bit kernel support)
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

### **Microsoft® Windows® on x86 systems**

- Intel Pentium at 500 MHz, or faster; Intel EM64T or AMD Opteron (32-bit kernel support only)
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

### **Microsoft Windows on x86-64 systems**

- AMD Opteron or Intel EM64T (64-bit kernel support)
- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive

### **WebSphere Service Registry and Repository**

- **AIX**
  - IBM POWER family of processors
  - Minimum 2 GB physical memory, 3 GB recommended
  - CD-ROM drive
  - DVD-ROM drive
- **HP-UX Intel Itanium**
  - Intel Pentium (or equivalent) processor at 1 GHz, or faster
  - Intel EM64T or AMD Opteron; for related information, visit <http://www-01.ibm.com/support/docview.wss?uid=swg21237405>
  - Minimum 2 GB physical memory, 3 GB recommended
  - CD-ROM drive
  - DVD-ROM drive
- **Linux on x86-64**
  - Intel EM64T or AMD Opteron. (64-bit kernel support only)
  - Minimum 2 GB physical memory, 3 GB recommended
  - CD-ROM drive
  - DVD-ROM drive
- **Linux on Power®**
  - PowerPC® POWER 5 at 375 MHz, or faster
  - Minimum 2 GB physical memory, 3 GB recommended
  - CD-ROM drive
  - DVD-ROM drive
- **Linux on IBM System z**
  - IBM System z processor
  - Minimum 2 GB physical memory, 3 GB recommended
  - CD-ROM drive
  - DVD-ROM drive
- **Sun Solaris SPARC**
  - Sun Solaris operating environment-compatible SPARC workstation
  - Minimum 2 GB physical memory, 3 GB recommended



- CD-ROM drive
- DVD-ROM drive
- **Microsoft Windows (supported with 32-bit WebSphere Application Server)**
  - Intel Pentium (or equivalent) processor at 1 GHz, or faster
  - Intel EM64T or AMD Opteron; for related information, visit <http://www-01.ibm.com/support/docview.wss?uid=swg21237405>
  - Minimum 2 GB physical memory, 3 GB recommended
  - CD-ROM drive
  - DVD-ROM drive
- **Microsoft Windows (supported with 64-bit WebSphere Application)**
  - Intel EM64T or AMD Opteron
  - Minimum 2 GB physical memory, 3 GB recommended
  - CD-ROM drive
  - DVD-ROM drive

For the latest information on WebSphere Service Registry and Repository

<http://www-01.ibm.com/support/docview.wss?rs=3163&uid=swg27017359>

Any hardware that is explicitly compatible and fully capable of running the specified operating system, all the corresponding supporting software, and any associated applications unmodified. The responsibility to provide a statement of full compatibility between machines lies with the original equipment provider (if not IBM).

## **Software requirements**

### **WebSphere Enterprise Service Bus**

#### **AIX on IBM Power Systems™**

- Operating systems (supported with a 32-bit WebSphere Application Server):
  - AIX 5L™ V5.3 (TL 5300-07-01-0748) (32-bit and 64-bit kernel support)
  - AIX V6.1 (TL 6100-01-00-0822)
- Operating systems (supported with a 64-bit WebSphere Application Server):
  - AIX 5L V5.3 (TL 5300-07-01-0748) (64-bit kernel support)
  - AIX V6.1 (TL 6100-01-00-0822) (64-bit kernel support)
- Application server:
  - WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6.0 plus Service Refresh 4. (The WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Informix® IDS V11.10.xC1
  - Oracle 11g Enterprise Edition Release 1 - 11.1.0.6
  - Oracle 11g Standard Edition Release 1 - 11.1.0.6
  - Note:** Supports Oracle Real Application Cluster (RAC).
- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2

- LDAP servers (required only to support optional functions):
  - See supported LDAP servers (3), and
  - IBM Tivoli® Directory Server V6.2
  - IBM Lotus Domino Enterprise Server V7.0
  - IBM Lotus Domino Enterprise Server V8.0
- Web servers:
  - See supported Web servers (4), and
  - IBM Lotus Domino Enterprise Server V8.0
  - Sun Java System Web Server 6.1 with Service Pack 1
  - Sun Java System Web Server 7.0 with Service Pack 1
- Web browser: Mozilla Firefox 3.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6), and
  - IBM Message Service Client for C/C++ V2.0.1
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adaptors (7)
- Security (required only to support optional functions):
  - See supported Security (8)
- Business-to-business integration (required only to support optional functions):
  - See supported B2B integration (9), and
  - IBM Lotus Forms V3.5.1
  - WebSphere Transformation Extender V8.2
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)

### **HP-UX on PA-RISC systems**

- Operating systems (supported with a 32-bit WebSphere Application Server):
  - HP-UX 11iv2 (11.23) with Standard Patch Bundle, dated September 2007
  - HP-UX 11iv3 (11.23) with Standard Patch Bundle, dated September 2007
- Application server:
  - WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6.0 Service Refresh 4. (The WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Oracle 11g Enterprise Edition Release 1 - 10.1.0.6
  - Oracle 11g Standard Edition Release 1 - 10.1.0.6
    - **Note:** Supports Oracle Real Application Cluster (RAC).
  - Java Database Connectivity (JDBC) drivers:
    - See supported Java Database Connectivity (JDBC) drivers (2), and
    - Microsoft SQL Server 2005 JDBC Driver 1.2

- LDAP servers (required only to support optional functions):
  - See supported LDAP servers (3), and
  - IBM Tivoli Directory Server V6.2
  - Sun Java Directory Server 6.0
  - Sun Java Directory Server 6.1
  - Novell eDirectory 8.8.1
- Web servers:
  - Apache HTTP Server 2.0.54
  - HTTP Server V6.1
  - HTTP Server V6.2
  - IBM Lotus Domino Enterprise Server V7.0.2
  - Sun Java System Web Server 6.1 Service Pack 1
  - Sun Java System Web Server 7.0 Service Pack 1
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6)
- Security (required only to support optional functions):
  - See supported Security (8)
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adaptors (7)
- Business-to-business integration (required only to support optional functions):
  - WebSphere Transformation Extender V8.2
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2

#### **HP-UX on IA64 systems**

- Operating systems (supported with a 64-bit WebSphere Application Server):
  - HP-UX 11iv2 (11.23) (64-bit kernel) with Standard Patch Bundle dated December 2007
  - HP-UX 11iv3 (64-bit kernel support) with Standard Patch Bundle dated September 2007
- Application server:
  - WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6 Service Refresh 4. (The WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Oracle 11g Enterprise Edition Release 1 - 10.1.0.6
  - Oracle 11g Standard Edition Release 1 - 10.1.0.6

**Note:** Supports Oracle Real Application Cluster (RAC).
- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2

- LDAP servers (required only to support optional functions):
  - IBM Tivoli Directory Server V6.0
  - IBM Tivoli Directory Server 6.1
  - OpenLDAP 2.4.7
- Web servers:
  - See supported Web servers (4), and
  - Apache HTTP Server 2.2
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6)
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adaptors (7)
- Security (required only to support optional functions):
  - See supported Security (8)
- Business-to-business integration (required only to support optional functions):
  - See supported B2B integration (9), and
  - WebSphere Transformation Extender V8.2
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)

### Linux on x86 systems

- Operating systems (supported with a 32-bit WebSphere Application Server):
  - Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 6)
  - Red Hat Enterprise Linux (RHEL) 4.0 ES (Update 6)
  - Red Hat Enterprise Linux (RHEL) 4.0 WS (Update 6)
  - Red Hat Enterprise Linux (RHEL) 5.0 Advanced Platform (or Update 1)
  - Red Hat Enterprise Linux (RHEL) 5.0 Server (Update 1)
  - Red Hat Enterprise Linux (RHEL) 5.0 Desktop (Update 1)

**Note:** Red Hat Linux WS is only for application design, development, and testing. It is not supported for production.

  - SUSE Linux Enterprise Server (SLES) 9.0 Service Pack 4
  - SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
  - SUSE Linux Enterprise Server (SLES) 11.0
- Application server:
  - WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6.0 Service Refresh 4. (The WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Oracle 11g Enterprise Edition Release 1 - 10.1.0.6
  - Oracle 11g Standard Edition Release 1 - 10.1.0.6

**Note:** Supports Oracle Real Application Cluster (RAC).

- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions):
  - See supported LDAP servers (3), and
  - IBM Tivoli Directory Server V6.2
  - IBM Lotus Domino Enterprise Server V7.0
  - IBM Lotus Domino Enterprise Server V8.0
  - Novell eDirectory 8.7.3
  - Novell eDirectory 8.8.1
  - Sun Java Directory Server 6.0
  - Sun Java Directory Server 6.1
- Web servers:
  - See supported Web servers (4), and
  - Apache HTTP Server 2.2
  - IBM Lotus Domino Enterprise Server V8.0
  - Sun Java System Web Server 6.1 Service Pack 1
  - Sun Java System Web Server 7.0 Service Pack 1
- Web browser: Mozilla Firefox 3.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6), and
  - IBM Message Service Client for C/C++ V2.0.1
  - WebSphere Process Server Client V7.0
- Security (required only to support optional functions):
  - See supported Security (8)
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adaptors (7)
- Business-to-business integration (required only to support optional functions):
  - See supported B2B integration (9), and
  - IBM Lotus Forms V3.5.1
  - WebSphere Transformation Extender V8.2
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)
- Tools and utilities:
  - WebSphere Integration Developer V6.1
  - WebSphere Integration Developer V6.1.2
  - WebSphere Integration Developer V6.2
  - WebSphere Integration Developer V7.0

## Linux on x86-64 systems

- Operating systems (supported with a 32-bit WebSphere Application Server):
  - Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 6)
  - Red Hat Enterprise Linux (RHEL) 4.0 ES (Update 6)
  - Red Hat Enterprise Linux (RHEL) 5.0 (or Update 1)
  - SUSE Linux Enterprise Server (SLES) 9.0 Service Pack 4
  - SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
  - SUSE Linux Enterprise Server (SLES) 11.0
- Operating systems (supported with a 64-bit WebSphere Application Server):
  - Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 6)
  - Red Hat Enterprise Linux (RHEL) 4.0 ES (Update 6)
  - Red Hat Enterprise Linux (RHEL) 5.0 Advanced Platform (or Update 1 or later)
  - Red Hat Enterprise Linux (RHEL) 5.0 (or Update 1)
  - SUSE Linux Enterprise Server (SLES) 9.0 Service Pack 1
  - SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
  - SUSE Linux Enterprise Server (SLES) 11.0
- Application server:
  - WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6.0 Service Refresh 4. (The WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Oracle 11g Enterprise Edition Release 1 - 10.1.0.6
  - Oracle 11g Standard Edition Release 1 - 10.1.0.6

**Note:** Supports Oracle Real Application Cluster (RAC).
- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions):
  - IBM Tivoli Directory Server V6.1
  - IBM Tivoli Directory Server V6.2
  - IBM Lotus Domino Enterprise Edition V8.0
  - Novell eDirectory 8.7.3
  - Novell eDirectory 8.8.1
  - OpenLDAP 2.4.7
  - Sun Java Directory Server 6.0
  - Sun Java Directory Server 6.1
- Web servers:
  - See supported Web servers (4), and
  - Apache HTTP Server 2.2
  - IBM Lotus Domino Enterprise Server V8.0
- Web browser
  - Mozilla Firefox 3.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)

- Clients (required only to support optional functions):
  - See supported Clients (6), and
  - IBM Message Service Client for C/C++ V2.0.1
- Security (required only to support optional functions):
  - See supported Security (8)
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adapters (7)
- Business-to-business integration (required only to support optional functions):
  - See supported B2B integration (9)
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)

### Linux on POWER systems

- Operating systems (supported with a 32-bit WebSphere Application Server):
  - Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 6)
  - Red Hat Enterprise Linux (RHEL) 5.0 AS (or Update 4)
  - SUSE Linux Enterprise Server (SLES) 9.0 Service Pack 4
  - SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
  - SUSE Linux Enterprise Server (SLES) 11.0
- Operating systems (supported with a 64-bit WebSphere Application Server):
  - Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 6)
  - Red Hat Enterprise Linux (RHEL) 5.0 AS (or Update 1)
  - SUSE Linux Enterprise Server (SLES) 9.0 Service Pack 4
  - SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
  - SUSE Linux Enterprise Server (SLES) 11.0
- Application server:
  - IBM WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6.0 Service Refresh 4. (The IBM WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Oracle 11g Enterprise Edition Release 1 - 10.1.0.6
  - Oracle 11g Standard Edition Release 1 - 10.1.0.6

**Note:** Supports Oracle Real Application Cluster (RAC).
- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions):
  - See supported LDAP servers (3), and
  - IBM Tivoli Directory Server V6.2
  - IBM Lotus Domino Enterprise Server V7.0.2
  - IBM Lotus Domino Enterprise Server V8.0
  - Novell eDirectory 8.8.1

- Web servers:
  - See supported Web servers (4), and
  - Apache HTTP Server 2.2
  - IBM Lotus Domino Enterprise Server V8.0
- Web browser
  - Mozilla Firefox 3.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6)
- Security (required only to support optional function):
  - See supported Security (8)
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adaptors (7)
- Business-to-business integration (required only to support optional functions):
  - See supported B2B integration (9)
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2 Fix Pack 1
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)

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

- Operating systems (supported with a 31-bit IBM WebSphere Application Server):
  - Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 6) (64-bit kernel support only)
  - Red Hat Enterprise Linux (RHEL) 5.0 Advanced Platform (or Update 1) (64-bit kernel support only)
  - SUSE Linux Enterprise Server (SLES) 9.0 Service Pack 4 (64-bit kernel support only)
  - SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1 (64-bit kernel support only)
  - SUSE Linux Enterprise Server (SLES) 11.0 (64-bit kernel support only)
- Operating systems (supported with a 64-bit IBM WebSphere Application Server):
  - Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 6) (64-bit kernel support only)
  - Red Hat Enterprise Linux (RHEL) 5.0 Advanced Platform (or Update 1) (64-bit kernel support only)
  - SUSE Linux Enterprise Server (SLES) 9.0 Service Pack 4 (64-bit kernel support only)
  - SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1 (64-bit kernel support only)
  - SUSE Linux Enterprise Server (SLES) 11.0 (64-bit kernel support only)
- Application server:
  - IBM WebSphere Application Server Network Deployment V7
- Java: IBM Java V6.0 SDK Service Refresh 4. (The IBM WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Oracle 11g Enterprise Edition Release 1 - 10.1.0.6



- Oracle 11g Standard Edition Release 1 - 10.1.0.6
  - Note:** Supports Oracle Real Application Cluster (RAC).
- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions):
  - See supported LDAP servers (3), and
  - IBM Tivoli Directory Server V6.2
  - IBM Lotus Domino Enterprise Edition V8.0
  - Novell eDirectory 8.8.1
- Web servers:
  - See supported Web servers (4), and
  - Apache HTTP Server 2.2
  - IBM Lotus Domino Enterprise Edition V8.0
- Web browser:
  - Mozilla Firefox 3.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6),
- Security (required only to support optional functions):
  - See supported Security (8)
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adaptors (7)
- Business-to-business integration (required only for optional functions):
  - See supported B2B integration (9), and
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2

### **Solaris on SPARC systems**

- Operating systems (supported with a 32-bit IBM WebSphere Application Server):
  - Sun Solaris 9 with the latest Patch Cluster dated 01/03/08 (32 and 64-bit kernel support)
  - Sun Solaris 10 with the latest Patch Cluster dated 01/07/08 (32-bit and 64-bit kernel support)
- Operating systems (supported with a 64-bit IBM WebSphere Application Server):
  - Sun Solaris 9 with the latest Patch Cluster dated 01/03/08 (32-bit and 64-bit kernel support)
  - Sun Solaris 10 with the latest Patch Cluster dated 01/07/08 (64-bit kernel support)
- Application server:
  - IBM WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6.0 with Service Refresh 6. (The IBM WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)

- Databases:
    - See supported databases (1), and
    - Oracle 11g Enterprise Edition Release 1 - 10.1.0.6
    - Oracle 11g Standard Edition Release 1 - 10.1.0.6
    - Note:** Supports Oracle Real Application Cluster (RAC).
  - Java Database Connectivity (JDBC) drivers:
    - See supported Java Database Connectivity (JDBC) drivers (2), and
    - Microsoft SQL Server 2005 JDBC Driver 1.2
  - LDAP servers (required only to support optional functions):
    - See supported LDAP servers (3), and
    - IBM Tivoli Directory Server V6.2
    - IBM Lotus Domino Enterprise Server V7.0
    - IBM Lotus Domino Enterprise Server V8.0
    - Novell eDirectory 8.7.3
    - Novell eDirectory 8.8.1
    - Sun Java Directory Server 6.0
    - Sun Java Directory Server 6.1
  - Web servers:
    - See supported Web servers (4), and
    - Apache HTTP Server 2.2
    - IBM Lotus Domino Enterprise Server V8.0
    - Sun Java System Web Server 6.1 Service Pack 1
    - Sun Java System Web Server 7.0 Service Pack 1
  - Web browser: Mozilla Firefox 3.0
  - JMS provider (required only to support optional functions):
    - See JMS provider (5)
  - Clients (required only to support optional functions):
    - See supported Clients (6), and
    - IBM Message Service Client for C/C++ V2.0.1
  - Security (required only to support optional functions):
    - See supported Security (8)
  - Resource Adapters (required only to support optional functions):
    - See supported Resource Adaptors (7)
  - Business-to-business integration (required only to support optional functions):
    - See supported B2B integration (9), and
    - IBM Lotus Forms V3.5.1
    - IBM WebSphere Transformation Extender V8.2
  - License use management (required only to support optional functions): IBM Tivoli License Manager V2.2
  - Service Registries (required only to support optional functions):
    - See supported Service Registries (10)
- Note:** Remote connections to earlier levels of IBM WebSphere Service Registry and Repository are supported.

## Sun Solaris on x86-64 systems

- Operating system (supported with a 64-bit IBM WebSphere Application Server): Sun Solaris 10 x86-64 with the latest Patch Cluster dated January 7, 2008 (64-bit kernel support)
- Application server: IBM WebSphere Application Server Network Deployment V7.0.7
- Java: IBM Java SDK V6.0 Service Refresh 4. (The IBM WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Oracle 11g Enterprise Edition Release 1 - 11.1.0.6
  - Oracle 11g Standard Edition Release 1 - 11.1.0.6**Note:** Supports Oracle Real Application Cluster (RAC).
- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions):
  - See supported LDAP servers (3), and
  - IBM Tivoli Directory Server V6.2
  - Sun Java Directory Server 6.0
  - Sun Java Directory Server 6.1
- Web servers:
  - See supported Web servers (4), and
  - Apache HTTP Server 2.2
  - IBM Lotus Notes® Domino V8.0
  - Sun Java System Web Server 6.1 Service Pack 1
  - Sun Java System Web Server 7.0 Service Pack 1
- Web browser: Mozilla Firefox 3.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6)
- Resource Adapters:
  - See supported Resource Adaptors (7)
- Security (required only to support optional functions):
  - See supported Security (8)
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2

## Microsoft Windows on x86 systems

- Operating systems (supported with a 32-bit IBM WebSphere Application Server):
  - Microsoft Windows Server 2003 R2 Datacenter 32 Edition Service Pack 2
  - Microsoft Windows Server 2003 R2 Enterprise 32 Edition Service Pack 2
  - Windows Server 2003 R2 Standard 32 Edition Service Pack 2
  - Microsoft Windows Server 2008 Datacenter Edition
  - Microsoft Windows Server 2008 Standard Edition

- Microsoft Windows Server 2008 Enterprise Edition
  - Microsoft Windows XP Professional Service Pack 2
  - Microsoft Windows Vista Business
  - Microsoft Windows Vista Enterprise
  - Microsoft Windows Vista Ultimate
- Note:** Microsoft Windows XP Professional, Microsoft Windows Vista Business, Microsoft Windows Vista Enterprise, and Microsoft Windows Vista Ultimate are supported only for application design, development, and testing. They are not supported for production.
- Application server: IBM WebSphere Application Server Network Deployment V7
  - Java: IBM Java SDK V6.0 Service Refresh 4. (The IBM WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
  - Databases:
    - See supported databases (1), and
    - Informix Dynamic Server V11.10.xC1
    - Oracle 11g Enterprise Edition Release 1 - 11.1.0.6
    - Oracle 11g Standard Edition Release 1 - 11.1.0.6

**Note:** Supports Oracle Real Application Cluster (RAC).

    - Microsoft SQL Server Enterprise 2005
    - Microsoft SQL Server Enterprise 2008

**Note:** Not supported for the reporting function in Business Process Choreographer or the Business Space component.
  - Java Database Connectivity (JDBC) drivers:
    - See supported Java Database Connectivity (JDBC) drivers (2), and
    - Microsoft SQL Server 2005 JDBC Driver 1.2
  - LDAP servers (required only to support optional functions):
    - See supported LDAP servers (3), and
    - IBM Tivoli Directory Server V6.2
    - IBM Lotus Domino Enterprise Server V7.0
    - IBM Lotus Domino Enterprise Server V8.0
    - Novell eDirectory 8.7.3
    - Novell eDirectory 8.8.1
    - Sun Java Directory Server 6.1
    - Microsoft Windows Active Directory 2003
    - Microsoft Windows Active Directory 2008
    - Microsoft Windows Active Directory Applications Mode 1.0 Service Pack 1
  - Web servers:
    - See supported Web servers (4), and
    - Apache HTTP Server 2.2
    - Microsoft Internet Information Services 6.0
    - Microsoft Internet Information Services 7.0
    - IBM Lotus Domino Enterprise Server V8.0
    - Sun Java System Web Server 6.1 Service Pack 1
    - Sun Java System Web Server 7.0 Service Pack 1
  - Web browser
    - Mozilla Firefox 3.0

- Microsoft Internet Explorer 6.0 Service Pack 2
- Microsoft Internet Explorer 7.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6), and
  - IBM Message Service Client for C/C++ V2.0.1
  - IBM Message Service Client for .NET V2.0
- Security (required only to support optional functions):
  - See supported Security (8)
- Resource Adapters (required only to support optional functions):
  - See supported Resource Adaptors (7)
- Business-to-business integration (required only to support optional functions):
  - See supported B2B integration (9), and
  - IBM Lotus Forms V3.5.1
  - IBM WebSphere Transformation Extender V8.2
- License use management (required only to support optional functions): IBM Tivoli License Manager V2.2
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)
- Tools and utilities
  - IBM WebSphere Integration Developer V6.1
  - IBM WebSphere Integration Developer V6.1.2
  - IBM WebSphere Integration Developer V6.2
  - IBM WebSphere Integration Developer V7.0

### **Microsoft Windows on x86-64 systems**

- Operating systems (supported with a 64-bit IBM WebSphere Application Server):
  - Microsoft Windows Server 2003 R2 Datacenter x64 Edition Service Pack 2
  - Microsoft Windows Server 2003 R2 Enterprise x64 Edition Service Pack 2
  - Microsoft Windows Server 2003 R2 Standard x64 Edition Service Pack 2
  - Microsoft Windows Server 2008 Datacenter Edition
  - Microsoft Windows Server 2008 Standard Edition
  - Microsoft Windows Server 2008 Enterprise Edition
- Application server:
  - WebSphere Application Server Network Deployment V7
- Java: IBM Java SDK V6.0 Service Refresh 4. (The WebSphere-supplied Java 2 SDK is required for both the runtime environment and remote Java Clients.)
- Databases:
  - See supported databases (1), and
  - Informix Dynamic Server V11.10.xC1
  - Oracle 11g Enterprise Edition Release 1 - 11.1.0.6
  - Oracle 11g Standard Edition Release 1 - 11.1.0.6
  - Note:** Supports Oracle Real Application Cluster (RAC).
  - Microsoft SQL Server Enterprise 2008

- Microsoft SQL Server Enterprise 2005
  - Note:** Not supported for the reporting function in Business Process Choreographer or the Business Space component.
- Java Database Connectivity (JDBC) drivers:
  - See supported Java Database Connectivity (JDBC) drivers (2), and
  - Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions):
  - IBM Tivoli Directory Server V6.1
  - IBM Tivoli Directory Server V6.2
  - Microsoft Windows Active Directory 2003
  - Microsoft Windows Active Directory 2008
  - Microsoft Windows Active Directory Applications Mode 1.0 Service Pack 1
  - OpenLDAP 2.4.7
  - Novell eDirectory 8.7.3
  - Novell eDirectory 8.8.1
  - IBM Lotus Domino Enterprise Edition V7.0.2
  - IBM Lotus Domino Enterprise Edition V8.0
  - Sun Java Directory Server 6.0
  - Sun Java Directory Server 6.1
- Web servers:
  - Apache HTTP Server 2.0.58
  - Apache HTTP Server 2.2
  - HTTP Server V6.1
  - HTTP Server V7.0
  - Microsoft Internet Information Services 6.0
  - Microsoft Internet Information Services 7.0
- Web browser:
  - Mozilla Firefox 3.0
  - Microsoft Internet Explorer 6.0 Service Pack 2
  - Microsoft Internet Explorer 7.0
- JMS provider (required only to support optional functions):
  - See JMS provider (5)
- Clients (required only to support optional functions):
  - See supported Clients (6)
- Security (required only to support optional functions):
  - See supported Security (8)
- Service Registries (required only to support optional functions):
  - See supported Service Registries (10)
- Resource Adapters
  - See supported Resource Adaptors (7)
  - Business-to-Business integration:
    - WebSphere Partner Gateway Advanced Edition V6.2
    - WebSphere Partner Gateway Enterprise Edition V6.2
  - License use management (required only to support optional functions): IBM Tivoli License Compliance Manager V2.21

- Tools and Utilities: WebSphere Application Server Feature Pack for Web Services V6.1.0.21

For latest details, visit

<http://www.ibm.com/software/integration/wsesb/sysreqs>

<http://www.ibm.com/software/integration/wps/sysreqs>

### **WebSphere Adapters**

- Email Adapter V7.0
  - As for WebSphere ESB
- Flat Files Adapter V7.0
  - As for WebSphere ESB
- FTP Adapter V7.0
  - As for WebSphere ESB
- JDBC Adapter V7.0
  - As for WebSphere ESB
- IBM i Adapter V7.0
  - As for WebSphere ESB, with the following exceptions:
    - Is not supported on Microsoft Windows XP
    - Is not supported by Microsoft Windows on x86-64 systems
    - Is not supported by Sun Solaris 10 on SPARC systems
    - Is not supported by IBM AIX 5L V5.4 or AIX V6.1 on any System p® or POWER6™ system
    - Supports only Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 4, or later) on 32-bit Linux on x86 and 64-bit Linux on x86 systems, and SUSE Linux Enterprise Server (SLES) 8 on 32-bit Linux on x86 systems
    - Is not supported on Linux for System z systems
- JD Edwards Adapter V7.0
  - As for WebSphere ESB, with the following exceptions:
    - Supports only Microsoft Windows 2003 on 32-bit Windows x86 systems
    - Does not support Microsoft Windows XP, Microsoft Windows Vista, and Microsoft Windows 2008
    - Is not supported by AIX 5L V5.4 or AIX V6.1 on any System p or POWER6 system
    - Supports only Red Hat Enterprise Linux (RHEL) 4.0 AS (Update 4, or later) on 32-bit Linux on x86 systems
    - Is not supported on Linux for System z systems
- Oracle E-Business Suite Adapter V7.0
  - As for WebSphere ESB, with the following exceptions:
    - Does not support Microsoft Windows 2003 R3 and Microsoft Windows Vista Ultimate
    - Is not supported by HP-UX 11iv2 and 11iv3 on PA-RISC systems
    - Is not supported by HP-UX 11iv2 on IA64 systems
    - Is not supported on POWER6 systems
    - Is not supported by AIX 5L V5.3 or later on any System p system
    - Does not support Red Hat Enterprise Linux (RHEL) 4.0, or later, AS, WS, and ES
    - Does not support SUSE Linux Enterprise Server (SLES) 9.0, or later

- Does not support Red Flag Data Center 5.0 Service Pack 1
- Is not supported on IA64 systems
- Is not supported on Linux for System z systems
- PeopleSoft Adapter V7.0
  - As for WebSphere ESB, with the following exceptions:
    - Is not supported on Microsoft Windows 2000, Microsoft Windows 2003 R3, Microsoft Windows XP, Microsoft Windows Vista, and Microsoft Windows 2008
    - Is not supported by HP-UX 11iv3, or later, on PA-RISC systems
    - Is not supported on POWER6 systems
    - Is not supported by AIX 5L V5.4 or AIX V6.1 on any System p or POWER6 system
    - Does not support Red Flag Data Center 5.0 Service Pack 1
    - Supports only Red Hat Enterprise Linux 4.0 AS, ES, and WS on 32-bit Linux on x86 systems
    - Supports only SUSE Linux Enterprise Server (SLES) 9.0
    - Red Hat Enterprise Linux 4.0 AS (Update 4, or later) and SUSE Linux Enterprise Server 9.0 with Service Pack 2 or Service Pack 3 on Linux on System x® systems
- SAP Software Adapter V7.0
  - As for WebSphere ESB, with the following exceptions:
    - Is not supported on Microsoft Windows XP, Microsoft Windows Vista, and Microsoft Windows 2008
    - Is not supported by AIX 5L V5.4 or AIX V6.1 on any System p or POWER6 system
    - Does not support Red Flag Data Center 5.0 Service Pack 1
    - Does not support Red Hat Desktop Linux
    - For Linux on System z systems, supports SUSE Linux Enterprise Server (SLES) 9.0 with Service Packs 2 and 3, SUSE Linux Enterprise Server (SLES) 10.0, Red Hat Enterprise Linux 4.0 AS (Update 4, or later), and Red Hat Enterprise Linux 5.0 Advanced Platform
- Siebel Adapter V7.0
  - As for WebSphere ESB, with the following exceptions:
    - Does not support Red Flag Data Center 5.0 Service Pack 1
    - Is not supported by HP-UX 11iv3, or later
    - Is not supported by Linux on System z systems

For latest details, visit

<http://www.ibm.com/support/docview.wss?uid=swg27006249>

## WebSphere Service Registry and Repository

- **AIX**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later
  - Operating systems supported with 32-bit WebSphere Application Server:
    - AIX 6.1 TL1 with Recommended Maintenance package 6100-01-00-0822 (32-bit and 64-bit kernel support)
    - AIX 5.3 TL7 with Service Pack 5300-07-01-0748, or later (32-bit and 64-bit kernel support)
  - Operating systems supported with 64-bit WebSphere Application Server:
    - AIX 6.1 TL1 with Recommended Maintenance package 6100-01-00-0822 (32-bit and 64-bit kernel support)



- AIX 5.3 TL7 with Service Pack 5300-07-01-0748, or later (32-bit and 64-bit kernel support)
- Database requirements
  - IBM DB2 Workgroup Server Edition for Linux, UNIX®, and Microsoft Windows, V9.5
  - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
  - DB2 Universal Database™ Enterprise Server Edition V9.7
  - Oracle 10g Standard and Enterprise Editions Release 2
  - Oracle 11g Standard and Enterprise Editions
- **HP-UX on Itanium**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later
  - Operating systems supported with 64-bit WebSphere Application Server:
    - HP-UX 11i v3 IA64 with standard patch bundles of December 2007 (64-bit kernel support)
    - HP-UX 11i v2 IA64 with standard patch bundles of December 2007 (64-bit kernel support)
  - Database requirements
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.5
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
    - DB2 Universal Database Enterprise Server Edition V9.7
    - Oracle 10g Standard and Enterprise Editions Release 2
    - Oracle 11g Standard and Enterprise Editions
- **Linux on x86**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later
  - Operating systems supported with 32-bit WebSphere Application Server:
    - Red Hat Enterprise Linux (RHEL) 5.0 Update 1 Server/Advanced Platform
    - Red Hat Enterprise Linux (RHEL) 4.0 Update 6 AS/ES
    - SUSE Linux 11.0 Enterprise Server
    - SUSE Linux 10.0 SP1 Enterprise Server
    - SUSE Linux (SLES) 9.0 SP4 Enterprise Server
  - Database requirements
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
    - DB2 Universal Database Enterprise Server Edition V9.7
    - Oracle 10g Standard and Enterprise Editions Release 2
    - Oracle 11g Standard and Enterprise Editions
- **Linux on x86-64**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later
  - Operating systems supported with 32-bit WebSphere Application Server:
    - Red Hat Enterprise Linux (RHEL) 5.0 Update 1 Server/Advanced Platform
    - Red Hat Enterprise Linux (RHEL) 4.0 Update 6 AS/ES
    - SUSE Linux 11.0 Enterprise Server
    - SUSE Linux 10.0 SP1 Enterprise Server
    - SUSE Linux (SLES) 9.0 SP4 Enterprise Server
  - Operating systems supported with 64-bit WebSphere Application Server:
    - Red Hat Enterprise Linux (RHEL) 5.0 Update 1 Server/Advanced Platform
    - Red Hat Enterprise Linux (RHEL) 4.0 Update 6 AS/ES
    - SUSE Linux 11.0 Enterprise Server

- SUSE Linux 10 SP1 Enterprise Server
- SUSE Linux (SLES) 9.0 SP4 Enterprise Server
- Database requirements
  - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.5
  - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
  - DB2 Universal Database Enterprise Server Edition V9.7
  - Oracle 10g Standard and Enterprise Editions Release 2
  - Oracle 11g Standard and Enterprise Editions
- **Linux on POWER systems**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later
  - Operating systems supported with 32-bit WebSphere Application Server:
    - Red Hat Enterprise Linux (RHEL) 5.0 Update 1 Server/Advanced Platform System
    - Red Hat Enterprise Linux (RHEL) 4.0 Update 6 AS System
    - SUSE Linux 11.0 Enterprise Server System
    - SUSE Linux 10.0 Update 1 Enterprise Server System
    - SUSE Linux (SLES) 9.0 SP4 Enterprise Server System
  - Operating Systems supported with 64-bit WebSphere Application Server:
    - Red Hat Enterprise Linux (RHEL) 5.0 Update 1 Server/Advanced Platform System
    - Red Hat Enterprise Linux (RHEL) 4.0 Update 6 AS System
    - SUSE Linux 11.0 Enterprise Server System
    - SUSE Linux 10.0 Update 1 Enterprise Server System
    - SUSE Linux (SLES) 9.0 SP4 Enterprise Server System
  - Database requirements
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.5
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
    - DB2 Universal Database Enterprise Server Edition V9.7
    - Oracle 10g Standard and Enterprise Editions Release 2
    - Oracle 11g Standard and Enterprise Editions
- **Linux on IBM System z**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later
  - Operating systems supported with 64-bit WebSphere Application Server:
    - Red Hat Enterprise Linux (RHEL) 5.0 Update 1 Server/Advanced Platform System z
    - Red Hat Enterprise Linux (RHEL) 4.0 Update 6 AS System z
    - SUSE Linux 11.0 Enterprise Server System z
    - SUSE Linux 10.0 Enterprise Server System z
    - SUSE Linux (SLES) 9.0 with SP4 Enterprise Server System z
  - Database requirements
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.5
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
    - DB2 Universal Database Enterprise Server Edition V9.7
- **Sun Solaris SPARC**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later

- Operating systems supported with 32-bit WebSphere Application Server: Sun Solaris 10 with the latest patch cluster dated July 01, 2008 (32-bit and 64-bit kernel support)
- Operating systems supported with 64-bit WebSphere Application Server: Sun Solaris 10 with the latest patch cluster dated July 01, 2008 (64-bit kernel support)
- Database requirements
  - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.5
  - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
  - DB2 Universal Database Enterprise Server Edition V9.7
  - Oracle 10g Standard and Enterprise Editions Release 2
  - Oracle 11g Standard and Enterprise Editions
- **Microsoft Windows**
  - Application server: WebSphere Application Server Network Deployment V7.0 with fix pack 5, or later
  - Operating systems supported with 32-bit WebSphere Application Server:
    - Microsoft Windows Server 2008 Standard Edition x86-32
    - Microsoft Windows Server 2008 Enterprise Edition x86-32
    - Microsoft Windows Vista Ultimate x86-32
    - Microsoft Windows Vista Enterprise x86-32
    - Microsoft Windows Vista Business x86-32
    - Microsoft Windows Server 2003 R2 Standard Edition x86-32
    - Microsoft Windows Server 2003 R2 Enterprise Edition x86-32
    - Microsoft Windows Server 2003 SP2 Standard Edition x86-32
    - Microsoft Windows Server 2003 SP2 Enterprise Edition x86-32
    - Microsoft Windows XP SP2 Professional x86-32
  - Operating systems supported with 64-bit WebSphere Application Server:
    - Microsoft Windows Server 2008 Standard Edition x86-64
    - Microsoft Windows Server 2008 Enterprise Edition x86-64
    - Microsoft Windows Server 2003 R2 Standard Edition x86-64
    - Microsoft Windows Server 2003 R2 Enterprise Edition x86-64
    - Microsoft Windows Server 2003 SP2 Standard Edition x86-64
    - Microsoft Windows Server 2003 SP2 Enterprise Edition x86-64
  - Database requirements
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.5
    - DB2 Workgroup Server Edition for Linux, UNIX, and Microsoft Windows, V9.1
    - DB2 Universal Database Enterprise Server Edition V9.7
    - Oracle 10g Standard and Enterprise Editions Release 2
    - Oracle 11g Standard and Enterprise Editions
    - Microsoft SQL Server Enterprise 2005

For the latest information on WebSphere Service Registry and Repository software requirements, visit

<http://www-01.ibm.com/support/docview.wss?rs=3163&uid=swg27017359>

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.

## Notes

### (1) Supported databases:

- Apache Derby 10.3
- DB2 UDB for UNIX, Linux, and Microsoft Windows V8.2 Fix Pack 6  
**Note:** Only Enterprise Server Edition and Workgroup Server Edition supported.
- DB2 Enterprise Server Edition V9.1
- DB2 Workgroup Server Edition V9.1
- DB2 Enterprise Server Edition V9.5
- DB2 Workgroup Server Edition V9.5  
**Note:** On AIX platform, Business Process Choreographer minimum requirement is DB2 V9.5 FP1.

On Sun Solaris x86-64 system, Business process Choreographer can be configured to use Materialized Query Views: see Performance Optimization Feature Pack

- DB2 Workgroup Server Edition V9.7
- DB2 Enterprise Server Edition for Linux, UNIX, and Microsoft Windows V9.7
- DB2 for i V5R4
- DB2 for i V6R1  
**Note:** Only supported for remote systems.
- IBM Informix IDS V10.00.xC6  
**Note:** On AIX platform, Not supported for the Business Space component.
- Informix Dynamic Server V11.50.xC1 1  
**Note:** On AIX platform. Not supported for the reporting function in Business Process Choreographer or the Business Space component.
- Oracle 10g Enterprise Edition Release 1 - 10.1.0.4
- Oracle 10g Standard Edition Release 1 - 10.1.0.4
- Oracle 10g Enterprise Edition Release 2 - 10.2.0.2
- Oracle 10g Standard Edition Release 2 - 10.2.0.2

### (2) Supported Java Database Connectivity (JDBC) drivers:

- Derby 10.3 JDBC V3.0
- Derby 10.3 JDBC V4.0
- DB2 Driver for JDBC and SQLJ (type 2 or 4) V3.4.65
- DB2 Universal JDBC Provider (type 2 or 4) V2.10.72
- Data Direct Connect for JDBC V4.0 (type 4)
- Application Connectivity to DB2 for z/OS® Feature
- Data Server Driver for JDBC and SQLJ (type 3) V3.51
- Data Server for JDBC and SQLJ (type 4) V4.1
- IBM Toolbox for Java/JTOpen JDBC Driver V6.0 (type 4)
- Informix JDBC Driver V3.00 JC3 (type 4)
- Informix JDBC Driver V3.10 JC1 (type 4)
- Informix Java Database Connectivity Driver V3.50.JC1
- Oracle JDBC Driver 11g 11.1.0.6

### (3) Supported LDAP servers:

- IBM Tivoli Directory Server V6.0

- IBM Tivoli Directory Server V6.1
- OpenLDAP 2.4.7

(4) Supported web servers:

- Apache HTTP Server 2.0.58
- HTTP Server V6.1
- HTTP Server V7.0
- IBM Lotus Domino Enterprise Server V7.0.2

(5) Supported JMS provider:

- WebSphere MQ V6.0.2.5
- WebSphere MQ V7.0
- WebSphere Application Server default messaging provider

(6) Supported Clients:

- For WebSphere Process Server only:
  - WebSphere Process Server Client V6.1.
  - WebSphere Process Server Client V6.1.2
  - WebSphere Process Server Client V6.2.0
  - WebSphere Process Server Client V7.0

(7) Supported Resource Adapters:

- IBM CICS Transaction Gateway V6.0
- IBM CICS Transaction Gateway V7.0
- IBM IMS TM Resource Adapter V9.1.0.2
- IBM IMS TM Resource Adapter V10

(8) Supported Security:

- IBM Tivoli Access Manager for e-Business V6.0
- IBM Tivoli Access Manager for e-Business V6.1

(9) Supported B2B integration:

- For WebSphere Process Server only:
  - WebSphere Partner Gateway Advanced Edition V6.2
  - WebSphere Partner Gateway Enterprise Edition V6.2

(10) Supported Service Registries:

- WebSphere Service Registry and Repository V6.1
- WebSphere Service Registry and Repository V6.2
- WebSphere Service Registry and Repository V6.3
- WebSphere Service Registry and Repository V7.0

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.

You must identify the machine on which you will install WebSphere Enterprise Service Bus Registry Edition.

Then identify the MSU tier in which it fits, and then calculate the number of Value Units for the required Use Authorization.

Before operating the system, you must confirm that they have sufficient Use Authorization to use the system.

You must purchase the appropriate number of Value Units before using the system.

Problem determination (PD) is a customer responsibility. PD is an assessment of whether a problem is caused by hardware or software. PD 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. PSI includes tracing the source of the program to a host system control program (SCP), an application program, or another source. Assisting the customer with PSI is an IBM service and support responsibility.

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IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

### ***Packaging***

The package contains:

- WebSphere Enterprise Server Bus V7.0 CDs
- WebSphere Service Registry and Repository V7.0 CDs
- Quick Start CD
- Printed Quick Start Guide

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and 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.

## Security, auditability, and control

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WebSphere Enterprise Service Bus Registry Edition, use the security and auditability features of the server operating system, and or the host software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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Product Identifier Description (PID)  
WebSphere Enterprise Service 5725-B48  
Bus Registry Edition

### **Charge metric**

Program name	Part number or PID number	Charge metric
WebSphere Enterprise Service Bus Registry Edition V7.0	5725-B48	Value Unit

## Processor Value Unit

Processor Value Unit (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

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

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.

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 (see webpage 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

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\* 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.

**Note:** 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.

**Note:** 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.

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## Passport Advantage

Program name/Description	Part number
WebSphere Enterprise Service Bus Registry Edition v7.0 Windows ML Media Pack	BA0ZYML
WebSphere Enterprise Service Bus Registry Edition v7.0 AIX ML Media Pack	BA0ZZML



WebSphere Enterprise Service Bus Registry Edition V7.0 Solaris ML Media Pack	BA100ML
WebSphere Enterprise Service Bus Registry Edition V7.0 HP-UX ML Media Pack	BA101ML
WebSphere Enterprise Service Bus Registry Edition V7.0 Linux x86 ML Media Pack	BA102ML
WebSphere Enterprise Service Bus Registry Edition V7.0 Linux POWER ML Media Pack	BA103ML
WebSphere Enterprise Service Bus Registry Edition V7.0 Linux z ML Media Pack	BA104ML
WebSphere Enterprise Service Bus Registry Edition V7.0 per PVU License + SW S&S 12 months	D0GALLL
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WebSphere Enterprise Service Bus Registry Edition V7.0 per PVU Annual SW S&S Reinstate 12 months	D0GAMLL
WebSphere Enterprise Service Bus Registry Edition V7.0 PVU Linux z Licence + SW S&S 12 months	D0GB0LL
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WebSphere Enterprise Service Bus Registry Edition V7.0 is composed of two components:

- WebSphere Enterprise Service Bus V7.0 (program 5724-I82) and
- WebSphere Service Registry and Repository V7.0 (program 5724-N72)

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### **License Information form number**

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L-YWAG-7S2SFZ (for program 5724-I82) and

L-SBRY-86PFV8 (for program 5724-N72)

The above-referenced components' License Information documents are available for review on the IBM Software License Agreement website

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### **Limited warranty applies**

Yes

### **Limited warranty**

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