



IBM WebSphere Process Server, WebSphere Enterprise Service Bus, and WebSphere Integration Developer V7.0 help optimize business performance

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At a glance

WebSphere® Process Server, WebSphere ESB, and WebSphere Integration Developer:

- Support WebSphere Application Server V7 and WebSphere MQ V7 enablement
- Exploit the versatility of the Human Tasks and Workflows widgets for the seamless integration of humans into business processes
- Let you easily model and execute scenarios where a human task is routed in parallel to several people
- Deliver migration of running processes to new process model versions
- Include guided task flows and additional built-in reusable solution patterns and a pattern explorer for learning concepts and performing tasks, and for faster solution development
- Improve the user experience for iterative development between WebSphere Business Modeler and WebSphere Integration Developer
- Improve human task client support with Web-based forms through Business Space and Lotus® Forms Server V3.5.1
- Include enhanced mapping capabilities and a navigable catalog
- Improve productivity: faster builds, faster deployment, smaller technology footprint, and usability enhancements
- Support XML-centric data models and enhanced recovery from external system outages
- Include selective installation of only the tooling you need for better control over memory footprint utilization

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

Overview

WebSphere Process Server is at the heart of your business process management (BPM) solutions. It is designed to help ensure that the processes you design in WebSphere Business Modeler or WebSphere Integration Developer are executed consistently, reliably, securely, and with transactional integrity. Built on open standards, WebSphere Process Server deploys and executes processes that orchestrate services (people, information, systems, and trading partners) within

your service oriented architecture (SOA) or non-SOA infrastructure. When combined with the power of WebSphere Business Monitor, processes can be optimized to meet changing business requirements, giving the business a competitive advantage. WebSphere Process Server is built upon, and contains, WebSphere ESB functionality.

WebSphere Integration Developer is the user-friendly authoring environment for end-to-end integration in your SOA. It is the Eclipse-based tool for building SOA-based BPM and integration solutions across WebSphere Process Server, WebSphere ESB, and WebSphere Adapters. It simplifies integration with rich features that accelerate the adoption of SOA by rendering existing IT assets as service components, encouraging reuse and efficiency. WebSphere Integration Developer enables integration developers to assemble complex business solutions -- whether processes, mediations, adapters, or code components -- using drag-and-drop technology to define, in a visual way, the sequence and flow of business processes. The supplied visual editors minimize the need to write code.

WebSphere Enterprise Service Bus (WebSphere ESB) is a flexible connectivity infrastructure for integrating applications and services, designed to enable the development of an SOA. Built on top of WebSphere Application Server for an integrated SOA platform, WebSphere ESB delivers a standards-based connectivity and integration solution that allows you to create and deploy interactions quickly and easily between applications and services, with a reduced number and complexity of interfaces. You can focus on your core business, rather than on your IT.

Media Extender for WebSphere Process Server provides extended service mediation facilities that can be used as components in workflows that handle large multimedia files, making the workflow simpler. The mediation facilities form part of a solution to enable business transformation by linking business and content systems together for effective media, or other rich content, management. These facilities can radically simplify the construction of media-oriented integration projects and workflows. The three mediation primitives can be used to enable registry-based decision making that respects media formats, content location, and resource availability. The primitives are programmed using WebSphere Integration Developer, resulting in ESB mediation flows. When deployed into WebSphere ESB, these mediations resolve media transformation and movement requirements. They can be used as simple services in business workflow models, hiding the complexity of media and rich content processing.

WebSphere Adapters help with business integration by connecting application and information assets to the ESB. They accelerate business integration projects with rapidly deployable, enterprise-ready connections based on best practices. The WebSphere Adapter portfolio provides a comprehensive set of capabilities to service-enable your assets, including packaged, custom, and legacy applications, technology protocols, and databases.

Refer to the [Description](#) section for details of new features.

Key prerequisites

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

Planned availability date

- December 11, 2009 (electronic software delivery of distributed products and physical software delivery of z/OS® products)
- January 15, 2010 (physical software delivery, distributed products)

WebSphere Process Server

WebSphere Process Server is a high-performance engine that helps to ensure that your deployed BPM solutions are enabled through SOA for maximum flexibility, interoperability, scalability, and robustness. Some key features of WebSphere Process Server include:

- Enables the simple and flexible execution of processes in an SOA to help you achieve maximum flexibility, interoperability, scalability, and robustness. WebSphere Process Server helps ensure that processes designed in WebSphere Business Modeler or WebSphere Integration Developer are executed consistently, reliably, securely, and with transactional integrity.

It offers a level of abstraction at the data, invocation and composition levels to facilitate integrating applications and services, including those that leverage human interaction. WebSphere Process Server helps maximize the reuse of existing IT assets in an SOA.

- Orchestrates a business's assets -- people, processes, systems, and information services -- to help form highly optimized and effective processes in a single SOA environment. Built on open standards, WebSphere Process Server deploys and executes process solutions designed to organize services (involving people, information, systems, and trading partners) within your SOA or non-SOA infrastructure.
- Offers robust process automation and advanced human workflow capabilities on a common SOA platform.
 - Deploys and executes business processes, supporting the full range of scenarios from simple to complex - with sophisticated support for long and short running business processes and a robust compensation model in a highly scalable infrastructure.
 - Delivers rich human task support including advanced task assignment capabilities, multi-level escalation and time constraint management, support for ad-hoc human collaboration including to do lists, advanced dynamic workflow features offering flexibility for changing in-flight process instances to react to changing business conditions and a feature-rich out-of-the box Web 2.0 business user client that leverages the common Business Space infrastructure.
 - Employs rule sets (if-then rules), as well as decision tables for implementing and enforcing business policy through the externalization of business logic.
 - Leverages business calendars modeled in WebSphere Integration Developer wherever elapsed time (duration) is needed, such as in human task expiration or business process wait activities.
 - Supports sophisticated event-driven business process scenarios modeled as business state machines.
- Delivers a single, integrated runtime offering the combined benefits of one of the industry's leading application servers and process automation capabilities. WebSphere Process Server inherits the robust capabilities and qualities of service provided by WebSphere Application Server Network Deployment, enabling it to exploit platform services and features such as scalability, reliability and high availability, failover, clustering, and security, including advanced clustering and failover capabilities; integrates seamlessly with the industry-leading WebSphere platform for streamlined IT operations.
- Includes an integrated, open standards-based enterprise service bus that provides a flexible connectivity infrastructure for integrating applications, data, and services. WebSphere Process Server includes the full capabilities of WebSphere ESB, whose features can be used to integrate with existing assets based on Web Services, JMS, WebSphere MQ and WebSphere Adapters. Additionally, the ESB provides dynamic routing capabilities, including dynamic lookup of a service endpoint in WebSphere Service Registry and Repository.
- Enables process flexibility with the ability to plug-and-play process components while the process solution is running, to easily change service and sub-process definitions invoked by a process and to change business rules and business

calendars on the fly from within the easy-to-use Web 2.0 Business Space client. Additional flexibility is available with human tasks, where human task activities can be extended by creating ad hoc follow-up tasks and sub-tasks on-the-fly and the execution path of in-flight process instances can be easily modified to skip or repeat process activities to adapt to specific business needs.

- Empowers business users and administrators with the Web 2.0 Business Space BPM client offering configurable and extensible widgets for human workflow and BPM solution administrators, providing fast time-to-value with key productivity capabilities. For business users, widgets in Business Space include configurable process and task lists and detailed work item views, including support for collaboration using prebuilt human tasks, as well as a graphical process view for viewing and working with running processes. For BPM solution administrators, widgets enable visibility into the health and operations of existing BPM solutions and enable the administration of key aspects of the BPM process, including security and business rules.
- Supports WebSphere Industry Content Packs, which provide a rich set of prebuilt, industry-specific assets across the WebSphere Business Process Management offering to accelerate and enhance delivery of BPM industry solutions. These assets include industry standards based process models and service models, thus providing prebuilt assets for WebSphere Process Server. WebSphere Industry Content Packs are available for Insurance, Banking, Telecommunications, Healthcare and Industrial Product Lifecycle Management and serve as a good starting point for WebSphere Process Server-based industry solutions.

New features in WebSphere Process Server V7.0

Enhances the capabilities for working with and administering human workflow.

- Increases business flexibility, enabling the business to react to changing business requirements with the ability to install new versions of a process and allow migration of running processes to a new version to leverage those changes immediately
- Supports additional human workflow scenarios, including parallel approval with voting and result aggregation
- Exploits the versatility of the human tasks and workflows widgets in Business Space in even more scenarios such as human task, workflow, and escalation management and experience their innovative capabilities including ad-hoc multi-column filtering and adaptive paging
- Provides richer capabilities for process administrators to manage in-flight processes, including modifying ownership of a process instance and enhanced activity repair capabilities such as resetting timers or repairing correlation sets

Empowers users and accelerates productivity across all process roles.

- Helps improve productivity with significantly faster deployment of BPM solutions -- from WebSphere Business Modeler and the command line -- and faster iterative development with WebSphere Integration Developer.
- Offers improved user experience for Interactive Process Design scenario with faster deployment.
- Enhances operational visibility with new and improved Business Space widgets that enable better service monitoring and health and problem determination.
- Improves problem determination with consistent fault handling across service component architecture (SCA) bindings and cross-component trace enhancements.
- Enhances operational flexibility with new and improved Business Space widgets that enable better module administration.

Improves time to value for implementing and deploying BPM solutions.

- Simplifies system installation, including easier cluster configuration.
- Provides consistent, flexible, and independent BPM topology and database configuration and management.

- Simplifies handling of run-time environment outages with support for unexpected service downtime with "store and forward" capability to queue events until service is restored.
- Eases the process of loading or unloading static relationship data through a data import and export capability.
- Leverages Web-based forms rendered from Lotus Forms Server, in addition to the existing Lotus Forms Client rendering capabilities.

Enhancements designed to ease the effort of migrating from WebSphere Business Integration heritage server solutions.

- Enhances the maintainability of the generated BPEL from migrated WebSphere InterChange Server repositories.
- Improves performance of WebSphere InterChange Server migration for improved user experience when migrating large repositories.

Enhances support for open standards.

- Java™ enhancements including Java Extended Edition 5, EJB 3.0, JPA, JDK 6 support, and enhanced Java integration
- Web services enhancements including WS-Addressing, Attachments, Kerberos token profile, and WS-Policy support
- Interoperability with Open SCA, enhanced OSGi support, and enhanced XML fidelity

Platform alignment and currency.

- Exploits and extends WebSphere Application Server V7.0, providing enhanced standards support, simplified system installation and administration, and enhanced WebSphere MQ V7 integration
- Enables the use of Microsoft® SQL Server 2008 as the underlying database for storing WebSphere Process Server program data (excluding BPC Explorer reporting capabilities)
- On z/OS, delivers improved integration of the WebSphere Customization Tool with the WebSphere Process Server for z/OS installation experience, enhanced tool support to assist with the DB2® database creation process, and a Common Installer Framework that provides an integrated "look and feel" for all z/OS BPM products

Moving to V7.0 from an earlier version.

- Extends and improves Information Center content to facilitate version-to-version migration.
- Has common commands and a user interface for version-to-version migration utilities across WebSphere Process Server, WebSphere Dynamic Process Edition, WebSphere Business Monitor, WebSphere Business Services Fabric, WebSphere ESB, and WebSphere Business Compass.
- WebSphere Process Server or WebSphere ESB z/OS clients running either V6.1.x or V6.2.x can migrate to V7.0 in a single step. Those z/OS clients running V6.0.2 of those products can migrate to V7.0 by using a two-step migration approach (for example, migrating from V6.0.2 to V6.2 and then migrating from V6.2 to V7.0).

WebSphere Process Server is designed to comply with the security settings as defined by the Federal Desktop Core Configuration (FDCC) for the U.S. federal government.

Common Criteria evaluation

WebSphere Process Server derives its security functionality from the WebSphere Application Server Network Deployment V7.0 run-time environment, and does not include additional security functionality. Therefore, a Common Criteria evaluation is not necessary because this product relies on the underlying run-time environment for security function and is neither Information Assurance (IA) nor IA-enabled.

The cryptographic functionality of WebSphere Process Server is managed by the WebSphere Application Server Network Deployment V7.0 run-time environment.

WebSphere Integration Developer

WebSphere Integration Developer is the user-friendly authoring environment for end-to-end integration in your SOA. It is the Eclipse-based tool for building SOA-based BPM and integration solutions across WebSphere Process Server, WebSphere ESB, and WebSphere Adapters. It:

- Simplifies integration with rich features that accelerate the adoption of SOA by rendering existing IT assets as service components, encouraging reuse and efficiency. It enables rapid assembly of business solutions by wiring reusable service components that can be discovered from multiple locations such as WebSphere Service Registry and Repository and IBM Rational® Asset Manager. It also provides a component architecture that simplifies component interfaces and plug-and-play solutions.
- Constructs process and integration solutions using intuitive drag-and-drop technology to visually define the sequence and flow of business processes. The visual editors for Business Process Execution Language (BPEL), Human Tasks, State Machines, Business Rules, Data Mapping, and others minimize the need to write code.
- Supports various types of business services, including executable business processes involving systems and human interaction based on Web Services-Business Process Execution Language (WS-BPEL) and IBM extensions with integrated fault and event handling, and support for compensation; mediation, orchestration, and integration of services; business rules and state machines.
- Includes comprehensive interface and data mapping capabilities, including some support for automatic mapping and reverse mapping.
- Leverages industry-standard interfaces and schemas represented in Web Services Description Language (WSDL) and XML Schema Definition (XSD).
- Supports generation of human interaction user interfaces that can be easily customized. Wizards for several technologies are offered, including the out-of-the-box Business Space, JavaServer Faces (JSF), WebSphere Portal, and Lotus Forms.
- Includes integrated testing and test case automation capabilities that include an integrated test client for testing the modules that you create, and a test suite editor and Web-based Component Test Explorer to assist in automating, running, and managing test cases.
- Delivers a team-based development environment with an integrated testing environment that provides a visual debugger for all components and the ability to deploy solutions directly to WebSphere Process Server and WebSphere ESB. It provides built-in test case support for creating test suites of repeatable test cases.
- Includes refactoring support so that changes made in one place get reflected in other places that are dependent and reduces complexity to resolve errors and dependencies.
- Enables business-driven development, fully integrating with WebSphere Business Modeler to take a model of a business process and quickly and easily implement and deploy it. The tight integration between these tools provides the ability to make incremental changes in the business model and apply them without loss of implementation. The integration with WebSphere Business Monitor lets you create monitoring models that define events that can be monitored on a business dashboard.
- Includes a wide range of adapters for interactions with people, data, and systems including Email, Flat Files, FTP, and Java Database Connectivity (JDBC) for development and production use. Bundles packaged application adapters (SAP Software, PeopleSoft, Oracle E-business, JD Edwards, and Siebel Business Applications) for development use.
- Supports Eclipse V3.4, which provides users with a single tooling experience when combined with tools such as IBM Rational Application Developer V7.5 and WebSphere Business Modeler through shell sharing.

- Supports WebSphere Industry Content Packs, which provide a rich set of prebuilt, industry-specific assets across the WebSphere BPM offering to accelerate and enhance delivery of BPM industry solutions. These assets include industry-standards-based process models and service models, thus providing prebuilt assets for the WebSphere Integration Developer tool. WebSphere Industry Content Packs are available for Insurance, Banking, Telecommunications, Healthcare and Industrial Product Lifecycle Management and serve as a good starting point for WebSphere Integration Developer and WebSphere Process Server-based industry solutions.

New features in WebSphere Integration Developer V7.0

WebSphere Integration Developer provides a powerful and flexible development environment with support for the latest technologies and capabilities delivered in WebSphere Process Server, WebSphere ESB, and WebSphere Adapters V7.0.

- Support for the latest technologies and standards:
 - Supports new capabilities delivered in WebSphere Process Server and WebSphere ESB V7.0
 - Supports WebSphere Application Server V7 and WebSphere MQ V7 enablement, including support for Java Enterprise Edition 5, Enterprise Java Beans 3.0, JDK 6, and Open SCA
 - Enhances Web services support for WS-Addressing and Attachments
 - Enables exposing services as enterprise Java beans with the new export binding
 - Improves the ability to rediscover services with operation differences
 - Improves versioning with new tools to assist process instance migration
- Improved tooling experience for accelerated solution development
 - New guided task flows: get started quicker with the new guided task flows that guide the user through the process of learning concepts and performing tasks by using simple multistep instructions embedded in the tool.
 - Additional built-in reusable solution patterns: develop solutions faster and more completely from a reusable pattern for complex scenarios. Includes a new pattern explorer for discovering and leveraging these patterns.
 - Supports parallel routing patterns in human workflow: provides capabilities to easily create complex parallel human tasks, including complex parallel approval processes that can be changed dynamically.
 - Improves human task client support with Web-based forms through Business Space and Lotus Forms Server V3.5.1. No longer requires the Lotus Forms Viewer for rendering forms in the Business Space environment.
 - Helps to improve productivity with faster builds and deployments.
- Enhances the usability of the process, mediation, and relationship editors:
 - Accelerates component testing.
 - Includes enhanced mapping capabilities and a navigable catalog that simplifies finding and creating maps within a project or workspace
 - Includes an improved installation experience: enhancements to the Launchpad and installs provide more user control over what is installed to help optimize the memory footprint. It also supports the integrated WebSphere Business Monitor toolkit and WebSphere Business Monitor test environment.
 - Supports the integrated Lotus Forms Designer V3.5.1 and Lotus Forms Server V3.5.1 for development and testing of Forms with your process flows.
- Enables accelerated iterative development between business analysts and IT developers:
 - Enables faster iteration with the new visual compare and merge capabilities
 - Improves collaboration by preserving business-defined model aspects
 - Enhances "round-tripping" to WebSphere Business Modeler with the ability to compare and merge some changes made by the user of WebSphere Integration Developer

For details on hardware and software requirements for WebSphere Integration Developer, visit

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

WebSphere ESB

WebSphere ESB is a flexible connectivity infrastructure for integrating applications and services. It allows the development of an SOA. WebSphere ESB powers the SOA by reducing the complexity of integrating the applications and services. WebSphere ESB is ideal if you have other solutions on WebSphere Application Server, WebSphere Portal, or the BPM platform. You may achieve efficiencies in skills, cost, and time-to-value across middleware products by adding WebSphere ESB to your standards-based IT environment.

Built as a service bus that extends the service integration technologies of WebSphere Application Server, WebSphere ESB is packaged both as part of WebSphere Process Server and as a stand-alone product. It allows clients to run their mediation modules, which are Java Extended Edition applications.

WebSphere ESB

- Provides Web services connectivity, MQ and MQ/JMS messaging, and service-oriented integration using WebSphere Adapters.
- Integrates seamlessly with the industry-leading WebSphere platform for streamlined IT operations
- Delivers business-critical qualities of service of WebSphere Application Server
- Extends easily to WebSphere Process Server for service orchestration and BPM
- Provides an integrated solution for both service mediation and service hosting

WebSphere ESB is easy to use from both a tools and a run-time perspective. WebSphere Integration Developer, the development tool of choice for WebSphere ESB, delivers an integrated, interactive, and visual development experience that requires minimal programming skills. You can get up and running quickly with a compelling out-of-the-box experience that is supported by easy-to-understand samples and comprehensive documentation.

Simplifying the task of declaring services, defining interconnections, and visually composing mediation functions (with first-class tool support for intelligent message routing, enrichment, and transformation) makes development easier. New role-based administration support makes it easy to manage WebSphere ESB deployments through a simplified user experience for solution administrators.

You can also potentially reduce the time required to see a return on your investment. WebSphere ESB facilitates the dynamic reconfiguration of service interactions to meet changing business needs. Extensive WebSphere Adapter support provides connection to hundreds of ISV solutions. Prebuilt mediation function can help save time and development costs.

For details on hardware and software requirements for WebSphere ESB, visit

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

New features in WebSphere ESB V7.0

- Accelerates productivity across user roles:
 - Allows powerful development in WebSphere Integration Developer with pattern-based development, guided task flows, mapping enhancements, and simplification
 - Simplifies system installation and cluster configuration
 - Includes enhanced operational visibility with enhanced service monitoring and health and problem determination business space widgets

- Improves operational flexibility with enhanced module administration business space widgets and endpoint-based mediation policy support
- Exploits and extends WebSphere Application Server V7:
 - Includes enhanced standards support, simplified system installation and administration, and enhanced WebSphere MQ V7 integration
- Enables advanced ESB scenarios:
 - Includes new Service Federation Management across WebSphere Service Registry and Repository and the ESB family to manage service visibility and reuse across the enterprise
 - Enhances process integrity of service interactions with event sequencing and intelligent store-and-forward
- Enhances support for open standards:
 - Includes Java enhancements: Java EE 5, EJB 3.0, JPA, JDK 6 support, and enhanced Java integration
 - Includes Web services enhancements: WS-Addressing, Attachments, Kerberos token profile, and WS-Policy support
 - Interoperability with Open SCA, enhanced OSGi support, and enhanced XML fidelity
 - Includes z/OS enhancements:
 - Improved integration of the WebSphere Customization Tool with the WebSphere Process Server for z/OS and WebSphere ESB for z/OS installation experience
 - Enhanced tool support to assist with the DB2 database creation process
 - Common Installer Framework that provides an integrated "look and feel" for all z/OS BPM products

Media Extender for WebSphere Process Server V7.0

Media Extender for WebSphere Process Server provides extended service mediation facilities that can be used as components in workflows that handle large multimedia files, making the workflow simpler. The mediation facilities form part of a solution to enable business transformation by linking business and content systems together for effective media, or other rich content, management.

New features in Media Extender for WebSphere Process Server V7.0

- Evolution of the Media Hub Solution
 - Media Extender for WebSphere Process Server V7.0 simplifies the IBM Media Hub Solution by removing the need for Services-Asset components. The solution can be implemented using WebSphere Process Server, WebSphere ESB, and WebSphere Integration Developer.
 - It provides support for Abstract Service Definition media service interfaces. Such services provide the implementation of rich content processing that is integrated using the Media Extender facilities.
- Capability to control the services considered for resolution of format transformation and data movement
- Enhanced ability to use application and format-specific media metadata in workflow decision making

WebSphere Adapters

To integrate business applications and processes, you must first connect your disparate application and information assets into a coherent framework. This connectivity is critical to leverage these assets in new and flexible business service applications and to extend and grow the return on investment in those solutions. Elimination of ongoing manual coding and custom interface maintenance can enhance the business flexibility of your IT infrastructure.

WebSphere Adapters provide a standard interface to enable these applications, insulating them from the details of information storage and retrieval. Adapters participate in an SOA by providing service enablement, service discovery, event capture, and a toolkit to build your own custom adapters.

WebSphere Adapters V7 provide the following JEE Connector Architecture (JCA) 1.5-compatible adapters and tools:

- WebSphere Adapter for Lotus Domino® V7 provides bidirectional integration to applications running on Lotus Domino with comprehensive support for Domino documents.
- WebSphere Adapter for IBM i V7 provides bidirectional integration to native i5/OS® applications on the IBM i platform.
- WebSphere Adapter for Email V7 enables the exchange of business objects with a variety of applications as e-mail message attachments.
- WebSphere Adapter for FTP V7 enables integration with applications using FTP to send and receive files to a remote FTP server.
- WebSphere Adapter for Flat Files V7 enables integration with applications, which provide a basic flat-file interface.
- WebSphere Adapter for JDBC V7 enables object-oriented integration with applications through the data tier. This JCA resource adapter integrates with database management systems through the exchange of relational data including tables, views, and stored procedures. It also provides comprehensive support for create, update, delete, and retrieve operations.
- WebSphere Adapter for SAP Software V7 enables bidirectional integration with SAP applications. This JCA resource adapter leverages Java APIs to access the SAP Business Application Programming Interface (BAPI) change parameters through a Remote Function Call (RFC) and to provide the bidirectional exchange of IDocs through the Application Enabling Link (ALE).
- WebSphere Adapter for Siebel Business Applications V7 leverages the Siebel Java Data Bean Object API to enable bidirectional integration with Siebel Business Applications.
- WebSphere Adapter for Oracle E-Business Suite V7 provides JDBC support for interface tables, concurrent programs, PL/SQL APIs, base tables, and views. Also supports event polling, database triggers, or Business Event System (BES) for events.
- WebSphere Adapter for JD Edwards EnterpriseOne V7 provides bidirectional integration to the JD Edwards EnterpriseOne suite. This JCA resource adapter supports the Dynamic Java Connector API with Business Functions and the list widget class XMLList.
- WebSphere Adapter for PeopleSoft Enterprise V7 provides bidirectional, real-time integration to PeopleSoft Enterprise. It interacts with PeopleSoft through the PeopleTools Component Interface Java API.
- WebSphere Adapter Toolkit V7 enables clients and IBM Business Partners to develop custom adapters to meet unique business requirements. The toolkit helps to create either a basic JCA 1.5 adapter or an adapter that leverages the additional capabilities of the Adapter Foundation Classes utilized by the prebuilt WebSphere Adapters. These custom adapters can be run on WebSphere Process Server, WebSphere ESB, WebSphere Message Broker, or WebSphere Application Server.

WebSphere Adapter Toolkit is available as a free download from IBM developerWorks® to clients and Business Partners who buy licenses for WebSphere Integration Developer or IBM Rational Application Developer. To access WebSphere Adapter Toolkit, visit

<http://www.ibm.com/developerworks/websphere/downloads/wat/>

New features in WebSphere Adapters V7.0

- The new WebSphere Adapter for Lotus Domino V7: Provides bi-directional integration with Lotus Domino-based applications, including discovery tooling and comprehensive support for Domino documents (basic, complex, and rich text types and attachments).
- Enhanced tooling with WebSphere Integration Developer for improved productivity to better support iterative development lifecycle.
- Enhancements across a range of the adapter products for expanded integration scenarios, improved productivity and simplification, performance, and scalability.
- Updates to support the latest available enterprise application versions.
- On z/OS, improved integration of the WebSphere Customization Tool with the WebSphere ESB for z/OS installation experience, enhanced tool support to assist with the DB2 database creation process, and a Common Installer Framework that provides an integrated "look and feel" for all z/OS BPM products.
- WebSphere Adapter Toolkit V7 includes updates to the Adapter Foundation Classes underlying WebSphere Adapters. Customers, Independent Software Vendors (ISVs) and service partners benefit from these enhancements in custom adapters they develop with WebSphere Adapter Toolkit.
- WebSphere Industry Content Packs provide a rich set of prebuilt, industry-specific assets across the WebSphere Business Process Management offering to accelerate and enhance delivery of BPM industry solutions. These assets include industry-standards-based process models and service models, thus providing prebuilt assets for WebSphere Integration Developer and WebSphere Process Server. WebSphere Industry Content Packs are available for Insurance, Banking, Telecommunications, Healthcare, and Industrial Product Lifecycle Management. They serve as a good starting point for WebSphere Integration Developer and WebSphere Process Server-based industry solutions.

Accessibility by people with disabilities

Features of the products that support use by people with disabilities include:

- Using assistive technologies such as screen readers and screen magnifier software
- Customizing display attributes such as color, contrast, and font size
- Operating the system using only the keyboard

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via IBM's web site at

http://www-03.ibm.com/able/product_accessibility/index.html

Value Unit-based pricing

Value Unit pricing for eligible IBM System z® IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool Web site

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the [Terms and conditions](#) section.

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 Application Server is one of the leading Java EE application server and development environments, and includes a built-in JMS engine, for messaging between Java EE applications.
- WebSphere Dynamic Process Edition is a comprehensive set of software offerings designed to allow customers requiring enterprise-wide integration capabilities and SOA to optimize their business processes with dynamic capabilities for rapid change and customization. WebSphere Dynamic Process Edition is built on IBM market-leading SOA-enabled products and capabilities that provide the foundation for integrating end-to-end business processes across an enterprise. It includes three products:
 - WebSphere Business Modeler
 - WebSphere Business Services Fabric
 - WebSphere Business Monitor
- WebSphere Business Services Fabric provides an end-to-end platform for the rapid assembly, delivery, and governance of industry-focused composite business services (CBS) in an SOA. It adds an industry-specific, semantically aware layer to the IBM SOA Foundation to enable dynamic business service personalization and delivery based on business context. WebSphere Service Registry and Repository provides the technical service metadata underpinning, serving as a prerequisite for the WebSphere Business Services Fabric solution. Note that this product is bundled with WebSphere Process Server and WebSphere Integration Developer by default.
- WebSphere MQ, available on more than 80 platform configurations, offers the core of application integration connectivity, and integrates many differing platforms, systems, and applications. It delivers heterogeneous messaging, extending your ESB with assured, reliable message delivery.

- WebSphere MQ File Transfer Edition adds file-specific features to the proven WebSphere MQ transport. It delivers a managed file transfer solution that enables the movement of files between IT systems with reliability and minimizes the need for programming.
- WebSphere Message Broker makes full use of the transport and connectivity options provided by WebSphere MQ and WebSphere Application Server, and allows additional routing and transformation capabilities to implement an integration-based ESB.
- WebSphere Process Server, which is built using WebSphere ESB, offers a rich and comprehensive SOA-based process integration solution, built on top of the industry's leading Java EE runtime, delivering process design and deployment as well as management capabilities to extend any choice of application infrastructure and application integration, but ideal for extending the service-oriented integration provided by WebSphere ESB to solve higher-level business problems.
- WebSphere Integration Developer, the development tool of choice for WebSphere ESB and WebSphere Process Server, delivers a visual development environment for modeling, testing, configuring, and deploying process ESB and process integration solutions. WebSphere Integration Developer simplifies process integration with rich features that accelerate the adoption of SOA by rendering existing IT assets as service components, thus encouraging reuse and efficiency. It enables integration developers to assemble complex business solutions -- whether processes, mediations, adapters, or code components -- in a user-friendly authoring environment.

You can construct process and integration solutions using drag-and-drop technology to define, in a visual way, the sequence and flow of business processes. The supplied visual editors minimize the need to write code. Users have a single tooling experience when combined with separately purchased tools such as IBM Rational Application Developer through shell sharing.

- 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.
- WebSphere DataPower® SOA Appliances are purpose-built, easy-to-deploy network devices that simplify, help secure, and accelerate XML and Web services deployments and extend core SOA infrastructure components like WebSphere ESB, WebSphere MQ, WebSphere Message Broker, and WebSphere Process Server.
- WebSphere Partner Gateway provides an environment for creating and managing supply chain partners that are being integrated to the business, as well as providing the support to send and receive multiple data types over multiple choices of protocol and transport layers. Whether you need to connect to just one or two key supply chain partners or whether you need to define a network of potentially thousands of partners, there are editions of this offering to meet your needs.
- WebSphere Portal delivers a single point of personalized interaction with applications, content, processes and people, integrating business processes and portal users via orchestrated workflow, and therefore helping to build scalable and reliable portals that can potentially improve employee productivity and increase client loyalty.
- WebSphere Adapters help integrate applications, technologies, and partner systems within and outside the enterprise. This extended range of adapters is integral to a scalable, secure integration infrastructure for the On Demand Business.

The market-leading IBM application integration software including WebSphere MQ, WebSphere ESB, WebSphere Message Broker, and WebSphere DataPower SOA Appliances helps organizations to:

- Quickly and economically address business integration issues
- Become more agile and take rapid advantage of new business opportunities
- Stay flexible
- Maintain client orientation
- Gain competitive position advantage

WebSphere Process Server is a single, integrated platform with the combined benefits of one of the industry's top application server and integration capabilities. It provides business flexibility on a highly scalable, reliable platform. WebSphere Process Server offers robust process automation, advanced human workflow, business rules with rich application-to-application and B2B capabilities all on a common, native SOA platform with full ESB connectivity.

WebSphere Integration Developer is the first to offer a role-based development experience that targets specifically the integration developer role on an integrated Eclipse platform. It can be expanded to other roles, such as business analyst, by adding the WebSphere Business Modeler product or Java EE developer by adding the IBM Rational Application Developer product, which is the primary development tooling for Java EE and portal developers.

The delivery of WebSphere Integration Developer and WebSphere Process Server-based industry solutions is further strengthened with the help of industry-standards-based SOA assets to help improve time-to-value, consistency, and reuse. These assets, packaged under WebSphere Industry Content Packs, are useful across the life cycle of WebSphere Integration Developer and WebSphere Process Server solution deployments.

WebSphere ESB allows organizations to maximize flexibility as an integrated, On Demand Business by:

- Routing messages between services
- Converting transport protocols between requester and service
- Transforming message formats between requester and service
- Handling business events from disparate sources
- Improving time to value with an integrated, interactive, and visual development environment that reduces the need to write code

SOA, ESB, and BPM

In an SOA, a connectivity layer, often referred to as an ESB, optimizes information distribution between service requesters and service providers. Each enterprise can deploy its own unique ESB, reflecting how far it has advanced toward becoming an On Demand Business.

Some users may find that simple messaging-based connectivity between well-matched applications delivers the aspects of integration that they require to implement an effective ESB. Other users may find that by extending these capabilities out into their wider deployed infrastructure, they realize value of other parts of the WebSphere software portfolio.

As key members of the WebSphere software portfolio, WebSphere ESB, WebSphere Message Broker, and WebSphere DataPower SOA Appliances enable your users to begin deploying your ESB today. These programs help maximize the value of your IT investment by broadening the range of environments this connectivity layer can reach, such as hardware and operating system platforms, and beyond more standardized programming models such as Java EE and .NET.

The proven delivery mechanisms of WebSphere MQ and the JMS messaging resources delivered by WebSphere Application Server, and available in WebSphere ESB, extend the reach of the ESB with reliable connectivity throughout the enterprise for connecting and integrating virtually any type of application or system. WebSphere Application Server messaging resources provide a best-of-breed JMS implementation for use with connecting to Java EE-hosted applications.

WebSphere MQ seamlessly extends those messaging resources to non-Java EE environments to integrate virtually anything, across more than 80 platform configurations. WebSphere ESB can make use of both types of messaging environment as required.

WebSphere ESB delivers an ESB that will connect applications that have standards-based interfaces in order to power your SOA. WebSphere ESB is used in conjunction with WebSphere Integration Developer, which is designed with ease of use in mind and, based around an interactive visual environment. To create a true ESB, WebSphere ESB also supports seamless integration with the WebSphere software stack, enabling you to move up the stack to solve more complex business problems, as well as the Web services-based integration provided by WebSphere ESB.

BPM with SOA allows you to separate 'what you do' from 'how you do it'. Abstracting the definition of the business processes from how those processes are executed gives businesses greater responsiveness and flexibility. This separation allows for changes to the business process without significant reengineering of the underlying technology and, conversely, allows for changes to the technology infrastructure with minimal impact on the business process.

WebSphere Message Broker adds services such as content-based message routing and transformation, as well as support for a range of message distribution options and protocols to improve their flexibility and performance. These features allow WebSphere Message Broker to extend the standardized integration features of an ESB out to encompass all business systems and applications, making full use of the IT assets of the business, and even allowing better integration with the applications and business processes of IBM Business Partners.

WebSphere software adds integration capabilities that enable you to begin reaping the benefits of SOAs and begin deploying end-to-end environments that provide the benefits of an ESB across all of a business infrastructure today.

IBM can help you to grow project-by-project toward an On Demand Business. WebSphere MQ, WebSphere Application Server, WebSphere ESB, and WebSphere Message Broker play a pivotal role in creating SOAs and will continue to do so as IBM delivers enhanced capabilities to accelerate the deployment of ESBs that span the entire IT ecosystem.

WebSphere Process Server is the flagship WebSphere process integration offering for SOA. It is the single process integration server to support all styles of integration based on SOA. WebSphere Process Server allows developers to create composite applications in an SOA environment. It is the single process server for all your process choreography needs.

WebSphere Process Server is the run-time engine for the IBM BPM portfolio. The IBM BPM suite enables you to model, assemble, deploy, and monitor end-to-end business workflows. WebSphere Process Server enables the life cycle of a business process with integration with WebSphere Business Modeler and WebSphere Business Monitor.

You can import, design, and analyze business processes using WebSphere Business Modeler. With WebSphere Process Server, you can then execute business processes in an SOA environment. Through WebSphere Business Monitor, you can get real-time visibility into business process performance.

WebSphere Process Server also enables:

- Interoperability with the WebSphere portfolio. WebSphere software offers a compelling set of capabilities for people, information, and application integration. WebSphere Process Server seamlessly integrates with these capabilities.
- Interoperability with non-IBM products. WebSphere Process Server allows you to interoperate with non-WebSphere applications using open-standards and a rich set of adapters.
- Integrating your IBM Business Partner community using industry protocols with WebSphere Partner Gateway.

Program number

Program number	Program name
5655-W09	IBM WebSphere Enterprise Service Bus for z/OS V7.0
5655-W05	IBM WebSphere Process Server for z/OS V7.0
5724-L01	IBM WebSphere Process Server V7.0
5724-I82	IBM WebSphere Enterprise Service Bus V7.0
5724-I66	IBM WebSphere Integration Developer V7.0
5724-V32	IBM Media Extender for WebSphere Process Server V7.0

Product identification number

WebSphere Process Server for z/OS, V7.0

Program PID Number	Subscription and Support PID Number
5655-W05	5655-P27

WebSphere Enterprise Service Bus for z/OS, V7.0

5655-W09	5655-R16
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Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=209-309>

Education support

IBM delivers a comprehensive portfolio of education services to help customers successfully deploy and integrate WebSphere Application and Integration middleware products to their maximum potential.

Education is a key component to ensuring software success. The IBM education team is committed to providing the highest quality education available to help your company prosper in today's competitive marketplace. We take pride in our ability to deliver successful education programs that provide your people with the skills necessary to make your business profitable using IBM software.

The IBM education team works closely with IBM product developers and IBM services organizations to ensure that the courses we offer provide the most up-to-the-minute technical and product information. Our courses place an emphasis on the advanced knowledge and insight that only these sources can provide. We draw from a deep pool of IBM technical experience in the development of our courses, and pass that knowledge on to our students.

For more information about available education offerings, visit the Web site and search on the product name

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

Offering Information

Product information is available via the Offering Information Web site

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

Publications

WebSphere ESB for z/OS

The primary delivery for product documentation for WebSphere ESB for z/OS V7.0 can be found in the Information Center available on the Web

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

The publication *IBM WebSphere Enterprise Service Bus for z/OS V7.0 Program Directory* (GI13-0549) is available with your order, and on the Web

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

The publication *IBM WebSphere Enterprise Service Bus for z/OS V7.0 License Information* (LC23-5077) is available with your order, and on the Web

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

The license ID is L-YWAG-7UKVZ3.

Note: This document is an extension to the IBM International Program License Agreement (Z125-3301) and contains terms and conditions specific to the WebSphere ESB for z/OS program; it also contains terms that supersede license terms which may be included with components of the program. This document details your rights and obligations for the software included in CD-ROM or DVD packages LK4T-2640, LK4T-2641, LK4T-2642, LK4T-2643, LK4T-2644, LK4T-1551, LK4T-1558, LK4T-1408, and LCD8-1016.

WebSphere Process Server for z/OS

The primary delivery for product documentation for WebSphere Process Server for z/OS V7.0 can be found in the Information Center available on the Web

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

The publication *IBM WebSphere Process Server for z/OS V7.0 Program Directory* (GI13-0553) is available with your order, and on the Web at

<http://www.ibm.com/software/integration/wps/library/infocenter/doc>

The publication *IBM WebSphere Process Server for z/OS V7.0 License Information* (LC23-5077) is available with your order, and on the Web at

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

The license ID is L-YWAG-7UKVZ3.

Note: This document is an extension to the IBM International Program License Agreement (Z125-3301) and contains terms and conditions specific to the WebSphere Process Server for z/OS program. It also contains terms that supersede license terms which may be included with components of the program. This document details your rights and obligations for the software included in CD-ROM or DVD package LK4T-2635, LK4T-2636, LK4T-2637, LK4T-2638, LK4T-2639, LK4T-1551, LK4T-1558, LK4T-1498, and LCD8-1016.

WebSphere ESB

This product includes a printed *Quick Start Guide* and *License Information* booklet (form number LC23-5077, part number CT5IPML).

For WebSphere ESB documentation, visit

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

WebSphere Process Server

This product includes a printed *Quick Start Guide* and *License Information* booklet (form number LC23-5077, part number CT5IPML).

For WebSphere Process Server documentation, visit

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

Portions of the documentation for WebSphere ESB and WebSphere Process Server are translated into the following national languages:

- Arabic
- Brazilian Portuguese
- Czech
- French
- German
- Hungarian
- Italian
- Japanese
- Korean
- Polish
- Russian
- Simplified Chinese
- Spanish
- Traditional Chinese

WebSphere Integration Developer user documentation is installed with the product and viewed using the online Information Center. Portions of WebSphere Integration Developer documentation are translated into the following national languages:

- Brazilian Portuguese
- Czech
- French
- German
- Hungarian
- Italian
- Japanese
- Korean
- Polish
- Russian
- Simplified Chinese
- Spanish
- Traditional Chinese

Media Extender for WebSphere Process Server user documentation is available in U.S. English only.

Specified operating environment

Hardware requirements**WebSphere Process Server and WebSphere ESB****IBM 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 3GHz for single-core system, 2.4GHz 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

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

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

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 Integration Developer

Linux on x86 systems

- Intel Pentium III processor at 1GHz or faster
- Minimum of 1 GB physical memory (2 GB physical memory is recommended)
- Minimum of 3.3 GB available disk space for a default installation, and 5.0 GB for a full installation; this includes the temporary disk space required during installation
- Minimum 1024 x 768 display resolution (1280 x 1024 is recommended)

Linux on Windows x86 systems

- Intel Pentium III processor at 1GHz or faster
- Minimum of 1 GB physical memory (2 GB physical memory is recommended)
- Minimum of 3.3 GB available disk space for a default installation, and 5.0 GB for a full installation; this includes the temporary disk space required during installation
- Minimum 1024 x 768 display resolution (1280 x 1024 is recommended)

WebSphere Media Extender for WebSphere Process Server

Linux on x86 systems

- Intel Pentium at 3Ghz for single-core system, 2.4GHz 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

Windows on x86 systems

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

Software requirements

WebSphere Process Server and WebSphere ESB

IBM 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- 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
 - Apache Derby 10.3
 - DB2 UDB for UNIX®, Linux, and 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:** Business Process Choreographer minimum requirement is DB2 V9.5 FP1.
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4
 - DB2 for i V6R1
 - Note:** Only supported for remote systems.
 - IBM Informix® IDS V10.00.xC6
 - Note:** Not supported for the Business Space component.
 - Informix IDS V11.10.xC1
 - Informix Dynamic Server V11.50.xC1 1
 - Note:** 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
 - 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
 - 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)
 - IBM Application Connectivity to DB2 for z/OS Feature
 - IBM 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
 - Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - IBM Tivoli® Directory Server V6.0
 - Tivoli Directory Server V6.1
 - Tivoli Directory Server V6.2
 - IBM Lotus Domino Enterprise Server V7.0
 - Lotus Domino Enterprise Server V8.0
 - OpenLDAP 2.4.7
- Web servers
 - Apache HTTP Server 2.0.58
 - IBM HTTP Server V6.1
 - HTTP Server V7.0
 - Lotus Domino Enterprise Server V7.0.2
 - 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 browsers
 - Mozilla Firefox 3.0
- JMS provider (required only to support optional functions)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - IBM Message Service Client for C/C++ V2.0.1
 - For WebSphere Process Server only: IBM WebSphere Process Server Client V6.1.0, V6.1.2, V6.2.0, or V7.0

- Security (required only to support optional functions)
 - IBM Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Resource Adapters (required only to support optional functions)
 - IBM CICS® Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IBM IMS™ TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Business-to-business integration (required only to support optional functions)
 - IBM Lotus Forms V3.5.1
 - IBM WebSphere Transformation Extender V8.2
 - For WebSphere Process Server only:
 - IBM 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 Manager V2.2
- Service Registries (required only to support optional functions)
 - 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

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
 - Apache Derby 10.3
 - DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 Enterprise Server Edition and Workgroup Server Edition
 - DB2 Enterprise Server Edition V9.1
 - DB2 Workgroup Server Edition V9.1
 - DB2 Enterprise Server Edition V9.5
 - DB2 Workgroup Server Edition V9.5
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4 1
 - DB2 for i V6R1
 - Note:** Only supported for remote systems.
 - Informix Dynamic Server V10.00.xC6

- Informix Dynamic Server V11.50.xC1
 - Note:** Not supported for 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
- 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
 - 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0
 - Tivoli Directory Server V6.1
 - Tivoli Directory Server V6.2
 - Sun Java Directory Server 6.0
 - Sun Java Directory Server 6.1
 - Novell eDirectory 8.8.1
 - OpenLDAP 2.4.7
- Web servers
 - Apache HTTP Server 2.0.54
 - HTTP Server V6.1
 - HTTP Server V6.2
 - 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)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider

- Clients (required only to support optional functions)
 - For WebSphere Process Server only
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Resource Adapters (required only to support optional functions)
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Business-to-business integration (required only to support optional functions)
 - WebSphere Transformation Extender V8.2
- Service Registries (required only to support optional functions)
 - 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
- License use management (required only to support optional functions)
 - 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
 - Apache Derby 10.3
 - DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 Enterprise Server Edition and Workgroup Server Edition
 - DB2 Enterprise Server Edition V9.1
 - DB2 Workgroup Server Edition V9.1
 - DB2 Enterprise Server Edition V9.5
 - DB2 Workgroup Server Edition V9.5
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4 1

- DB2 for i V6R1
 - Note:** Only supported for remote systems.
- Informix Dynamic Server V10.00.xC6
- Informix Dynamic Server V11.50.xC1
 - Note:** Not supported for 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
- 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
 - 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 3.50.JC1
 - Oracle 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0
 - Tivoli Directory Server 6.1
 - OpenLDAP 2.4.7
- Web servers
 - Apache HTTP Server 2.0.58
 - Apache HTTP Server 2.2
 - HTTP Server V6.1
 - HTTP Server V7.0
 - Lotus Domino Enterprise Edition V7.0.2
- JMS provider (required only to support optional functions)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider

- Clients (required only to support optional functions)
 - 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
- Resource Adapters (required only to support optional functions)
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Business-to-business integration (required only to support optional functions)
 - WebSphere Transformation Extender V8.2
 - For WebSphere Process Server only:
 - WebSphere Partner Gateway Advanced Edition V6.2
 - WebSphere Partner Gateway Enterprise Edition V6.2
- License use management (required only to support optional functions)
 - Tivoli License Manager V2.2
- Service Registries (required only to support optional functions)
 - 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

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
 - Apache Derby 10.3
 - DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 Enterprise Server Edition and Workgroup Server Edition
 - DB2 Enterprise Server Edition V9.1
 - DB2 Workgroup Server Edition V9.1
 - DB2 Enterprise Server Edition V9.5
 - DB2 Workgroup Server Edition V9.5
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4 1
 - DB2 for i V6R1
 - Note:** Only supported for remote systems.
 - Informix Dynamic Server V10.00.xC6
 - Informix Dynamic Server V11.50.xC1
 - Note:** Not supported for 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
 - 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
 - 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0

- Tivoli Directory Server V6.1
- Tivoli Directory Server V6.2
- Lotus Domino Enterprise Server V7.0
- Lotus Domino Enterprise Server 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
 - Apache HTTP Server 2.0.8
 - Apache HTTP Server 2.2
 - HTTP Server V6.1
 - HTTP Server V7.0
 - Lotus Domino Enterprise Server V7.0.2
 - 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)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - Message Service Client for C/C++ V2.0.1
 - For WebSphere Process Server only:
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Resource Adapters (required only to support optional functions)
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Business-to-business integration (required only to support optional functions)
 - Lotus Forms V3.5.1
 - WebSphere Transformation Extender V8.2
 - For WebSphere Process Server only:
 - WebSphere Partner Gateway Advanced Edition V6.2
 - WebSphere Partner Gateway Enterprise Edition V6.2

- License use management (required only to support optional functions)
Tivoli License Manager V2.2
- Service Registries (required only to support optional functions)
 - 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
- 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
 - Apache Derby V10.3
 - DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 Enterprise Server Edition and Workgroup Server Edition
 - DB2 Enterprise Server Edition V9.1
 - DB2 Workgroup Server Edition V9.1
 - DB2 Enterprise Server Edition V9.5
 - DB2 Workgroup Server Edition V9.5
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4 1
 - DB2 for i V6R1

Note: Only supported for remote systems.

- Informix Dynamic Server V10.00.xC6
- Informix Dynamic Server V11.50.xC1

Note: Not supported for 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
- 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
 - 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.1
 - Tivoli Directory Server V6.2
 - 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
 - Apache HTTP Server 2.0.58
 - Apache HTTP Server 2.2
 - HTTP Server V6.1
 - HTTP Server V7.0
 - Lotus Domino Enterprise Server V7.0.2
 - Lotus Domino Enterprise Server V8.0
- Web browser
 - Mozilla Firefox 3.0

- JMS provider (required only to support optional functions)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - Message Service Client for C/C++ V2.0.1
 - For WebSphere Process Server only:
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- License use management (required only to support optional functions)
 - Tivoli License Manager V2.2
- Resource Adapters (required only to support optional functions)
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Business-to-business integration (required only to support optional functions)
 - For WebSphere Process Server only
 - WebSphere Partner Gateway Advanced Edition V6.2
 - WebSphere Partner Gateway Enterprise Edition V6.2
- Service Registries (required only to support optional functions)
 - 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

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
 - 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
 - Apache Derby V10.3
 - DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 Enterprise Server Edition and Workgroup Server Edition
 - DB2 Enterprise Server Edition V9.1
 - DB2 Workgroup Server Edition 9.1
 - DB2 Enterprise Server Edition 9.5
 - DB2 Workgroup Server Edition V9.5
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4 1
 - DB2 for i V6R1
 - Note:** Only supported for remote systems.
 - Informix Dynamic Server V10.00.xC6
 - Informix Dynamic Server V11.50.xC1
 - Note:** Not supported for 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
 - 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
 - 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0

- Tivoli Directory Server V6.1
- Tivoli Directory Server V6.2
- Lotus Domino Enterprise Server V7.0.2
- Lotus Domino Enterprise Server V8.0
- Novell eDirectory 8.8.1
- OpenLDAP 2.4.7
- Web servers
 - Apache HTTP Server 2.0.58
 - Apache HTTP Server 2.2
 - HTTP Server V6.1
 - HTTP Server V7.0
 - Lotus Domino Enterprise Server V7.0.2
 - Lotus Domino Enterprise Server V8.0
- Web browser
 - Mozilla Firefox 3.0
- JMS provider (required only to support optional functions)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - For WebSphere Process Server only
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Resource Adapters (required only to support optional functions):
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Business-to-business integration (required only to support optional functions)
 - For WebSphere Process Server only
 - WebSphere Partner Gateway Advanced Edition V6.2
 - WebSphere Partner Gateway Enterprise Edition V6.2
- License use management (required only to support optional functions)
 - Tivoli License Manager V2.2 Fix Pack 1
- Service Registries (required only to support optional functions)
 - 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

Linux on System z systems

- Operating systems (supported with a 31-bit 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 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
WebSphere Application Server Network Deployment V7
- Java
IBM Java V6.0 SDK Service Refresh 4. (The WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases
 - Apache Derby 10.3
 - DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 Enterprise Server Edition and Workgroup Server Edition
 - DB2 Enterprise Server Edition V9.1
 - DB2 Workgroup Server Edition V9.1
 - DB2 Enterprise Server Edition V9.5
 - DB2 Workgroup Server Edition V9.5
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4
 - DB2 for i V6R1
 - Note:** Only supported for remote systems.
 - Informix Dynamic Server V10.00.xC6
 - Informix Dynamic Server V11.50.xC1
 - Note:** Not supported for 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
 - 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
 - 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0
 - Tivoli Directory Server V6.1
 - Tivoli Directory Server V6.2
 - Lotus Domino Enterprise Edition V8.0
 - Novell eDirectory 8.8.1
 - OpenLDAP 2.4.7
- Web servers
 - Apache HTTP Server 2.0.58
 - Apache HTTP Server 2.2
 - HTTP Server V6.1
 - HTTP Server V7.0
 - Lotus Domino Enterprise Edition V7.0.2
 - Lotus Domino Enterprise Edition V8.0
- Web browser
 - Mozilla Firefox 3.0
- JMS provider (required only to support optional functions)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - For WebSphere Process Server only
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Resource Adapters (required only to support optional functions)

- CICS Transaction Gateway V6.0
- CICS Transaction Gateway V7.0
- IMS TM Resource Adapter V9.1.0.2
- IMS TM Resource Adapter V10
- Business-to-business integration (required only for optional functions)
 - For WebSphere Process Server only:
 - WebSphere Partner Gateway Advanced Edition V6.2
 - WebSphere Partner Gateway Enterprise Edition V6.2
- Service Registries (required only to support optional functions)
 - 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
- License use management (required only to support optional functions)
 - Tivoli License Manager V2.2

Solaris on SPARC systems

- Operating systems (supported with a 32-bit 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 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
 - WebSphere Application Server Network Deployment V7
- Java
 - IBM Java SDK V6.0 with Service Refresh 6. (The WebSphere-supplied Java SDK is required for both the runtime environment and remote Java Clients.)
- Databases
 - Apache Derby V10.3
 - DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 Enterprise Server Edition and Workgroup Server Edition
 - DB2 Enterprise Server Edition V9.1
 - DB2 Workgroup Server Edition V9.1
 - DB2 Enterprise Server Edition V9.5
 - DB2 Workgroup Server Edition V9.5
 - DB2 Workgroup Server Edition V9.7
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 for i V5R4 1
 - DB2 for i V6R1
 - Note:** Only supported for remote systems.
 - Informix Dynamic Server V10.00.xC6
 - Informix Dynamic Server V11.50.xC1

Note: Not supported for 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
- 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
 - 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0
 - Tivoli Directory Server V6.1
 - Tivoli Directory Server V6.2
 - Lotus Domino Enterprise Server V7.0
 - 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
 - OpenLDAP 2.4.7

- Web servers
 - Apache HTTP Server 2.0.8
 - Apache HTTP Server 2.2
 - HTTP Server V6.1
 - HTTP Server V7.0
 - Lotus Domino Enterprise Server V7.0.2
 - 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)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - Message Service Client for C/C++ V2.0.1
 - For WebSphere Process Server only:
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Resource Adapters (required only to support optional functions)
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Business-to-business integration (required only to support optional functions)
 - Lotus Forms V3.5.1
 - WebSphere Transformation Extender V8.2
 - For WebSphere Process Server only:
 - WebSphere Partner Gateway Advanced Edition V6.2
 - WebSphere Partner Gateway Enterprise Edition V6.2
- License use management (required only to support optional functions)
 - Tivoli License Manager V2.2
- Service Registries (required only to support optional functions)
 - 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

Note: Remote connections to earlier levels of WebSphere Service Registry and Repository are supported.

Solaris on x86-64 systems

- Operating systems (supported with a 64-bit WebSphere Application Server)
Sun Solaris 10 x86-64 with the latest Patch Cluster dated 01/07/08 (64-bit kernel support)
- 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
 - Apache Derby 10.3
 - DB2 for UNIX, Linux, and Windows V8.2 Fix Pack 6
 - 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:** Business Process Choreographer can be configured to use Materialized Query Views; see Performance Optimization Feature Pack.
 - DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
 - DB2 Workgroup Server Edition V9.5
 - DB2 for i V5R4 1
 - DB2 for i V6R1
 - Note:** Only supported for remote systems.
 - Informix IDS V10.00.xC6
 - 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
 - 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
 - Derby 10.0.3 JDBC V3.0
 - Derby 10.0.3 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6

- Microsoft SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0
 - Tivoli Directory Server V6.1
 - Tivoli Directory Server V6.2
 - OpenLDAP 2.4.7
 - 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
 - Lotus Notes® Domino V7.0.2
 - 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)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - For WebSphere Process Server only:
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Resource Adapters
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- License use management (required only to support optional functions)
 - Tivoli License Manager V2.2

Windows on x86 systems

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

- Windows Server 2008 Datacenter Edition
- Windows Server 2008 Standard Edition
- Windows Server 2008 Enterprise Edition
- Windows XP Professional Service Pack 2
- Windows Vista Business
- Windows Vista Enterprise
- Windows Vista Ultimate

Note: Windows XP Professional, Vista Business, Vista Enterprise, and Vista Ultimate are supported only for application design, development, and testing. They are not supported for production.

- 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

- Apache Derby 10.3
- DB2 UDB for Linux, UNIX, and Windows V8.2 Fix Pack 6 (V8 Fix Pack 13)

Note: Only Enterprise Server Edition and Workgroup Server Edition are 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
- DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
- DB2 Workgroup Server Edition V9.7
- DB2 for i V5R4
- DB2 for i V6R1

Note: Only supported for remote systems.

- Informix Dynamic Server V10.00.xC6

Note: Not supported for the Business Space component.

- Informix Dynamic Server V11.10.xC1
- Informix Dynamic Server V11.50.xC1

Note: Not supported for the reporting function in Business Process Choreographer or for 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
- 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).

- SQL Server Enterprise 2005
- 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
 - Derby 10.0.3 JDBC V3.0
 - Derby 10.0.3 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 Driver for JDBC and SQLJ (type 4) V4.1
 - 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 11g JDBC Driver 11.1.0.6
 - SQL Server 2005 JDBC Driver 1.2
- LDAP servers (required only to support optional functions)
 - Tivoli Directory Server V6.0
 - Tivoli Directory Server V6.1
 - Tivoli Directory Server V6.2
 - Lotus Domino Enterprise Server V7.0
 - Lotus Domino Enterprise Server V8.0
 - Novell eDirectory 8.7.3
 - Novell eDirectory 8.8.1
 - Sun Java Directory Server 6.1
 - Windows Active Directory 2003
 - Windows Active Directory 2008
 - Windows Active Directory Applications Mode 1.0 Service Pack 1
 - OpenLDAP 2.4.7
- 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
 - Internet Information Services 7.0
 - Lotus Domino Enterprise Server V7.0.2
 - 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
 - Internet Explorer 7.0
- JMS provider (required only to support optional functions)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider

- Clients (required only to support optional functions)
 - Message Service Client for C/C++ V2.0.1
 - Message Service Client for .NET V2.0
 - For WebSphere Process Server only:
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Resource Adapters (required only to support optional functions)
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10
- Business-to-business integration (required only to support optional functions)
 - Lotus Forms V3.5.1
 - WebSphere Transformation Extender V8.2
 - For WebSphere Process Server only:
 - WebSphere Partner Gateway Advanced Edition V6.2
 - WebSphere Partner Gateway Enterprise Edition V6.2
- License use management (required only to support optional functions)
 - Tivoli License Manager V2.2
- Service Registries (required only to support optional functions)
 - 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
- Tools and utilities
 - WebSphere Integration Developer V6.1
 - WebSphere Integration Developer V6.1.2
 - WebSphere Integration Developer V6.2
 - WebSphere Integration Developer V7.0

Windows on x86-64 systems

- Operating systems (supported with a 64-bit WebSphere Application Server)
 - Windows Server 2003 R2 Datacenter x64 Edition Service Pack 2
 - Windows Server 2003 R2 Enterprise x64 Edition Service Pack 2
 - Windows Server 2003 R2 Standard x64 Edition Service Pack 2
 - Windows Server 2008 Datacenter Edition
 - Windows Server 2008 Standard Edition
 - 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

- Apache Derby 10.3
- DB2 for UNIX, Linux, and Windows V8.2 Fix Pack 6
- Enterprise Server Edition V9.1
- DB2 Workgroup Server Edition V9.1
- DB2 Enterprise Server Edition V9.5
- DB2 Workgroup Server Edition V9.5
- DB2 Workgroup Server Edition V9.7
- DB2 Enterprise Server Edition for Linux, UNIX, and Windows V9.7
- Informix Dynamic Server V10.00.xC6

Note: Not supported for the reporting function in Business Process Choreographer or the Business Space component.

- Informix Dynamic Server V10.00.xC6

Note: Not supported for the reporting function in Business Process Choreographer or the Business Space component.

- Informix Dynamic Server V11.10.xC1
- 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
- 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).

- SQL Server Enterprise 2008
- 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

- Derby 10.3 JDBC Driver V3.0
- Derby 10.3 JDBC Driver V4.0
- DB2 Driver for JDBC and SQLJ (type 2 and 4) V3.4.65
- DB2 Universal JDBC Provider (type 2 or 4) V2.10.72
- Data Direct Connect for JDBC V4.0 (type 4)
- Data Direct Server Driver for JDBC and SQLJ (type 3) V3.51
- Data Direct Server Driver for JDBC and SQLJ (type 4) V4.1
- Application Connectivity to DB2 for z/OS Feature
- 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
- SQL Server 2005 JDBC Driver 1.2

- LDAP servers (required only to support optional functions)

- Tivoli Directory Server V6.1

- Tivoli Directory Server V6.2
- Windows Active Directory 2003
- Windows Active Directory 2008
- Windows Active Directory Applications Mode 1.0 Service Pack 1
- OpenLDAP 2.4.7
- Novell eDirectory 8.7.3
- Novell eDirectory 8.8.1
- Lotus Domino Enterprise Edition V7.0.2
- 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
 - Internet Information Services 6.0
 - Internet Information Services 7.0
- Web browser
 - Mozilla Firefox 3.0
 - Internet Explorer 6.0 Service Pack 2
 - Internet Explorer 7.0
- JMS provider (required only to support optional functions)
 - WebSphere MQ V6.0.2.5
 - WebSphere MQ V7.0
 - WebSphere Application Server default messaging provider
- Clients (required only to support optional functions)
 - For WebSphere Process Server only:
 - WebSphere Process Server Client V6.1.0
 - WebSphere Process Server Client V6.1.2
 - WebSphere Process Server Client V6.2.0
 - WebSphere Process Server Client V7.0
- Security (required only to support optional functions)
 - Tivoli Access Manager for e-Business V6.0
 - Tivoli Access Manager for e-Business V6.1
- Service Registries (required only to support optional functions)
 - 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
- Resource adapters
 - CICS Transaction Gateway V6.0
 - CICS Transaction Gateway V7.0
 - IMS TM Resource Adapter V9.1.0.2
 - IMS TM Resource Adapter V10

- 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)
 - Tivoli License Compliance Manager V2.2
- 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>

- Business-to-business integration (required only to support optional functions)
 - WebSphere Transformation Extender V8.2
- License use management (required only to support optional functions)
 - Tivoli License Compliance Manager V2.2
- Service Registries (required only to support optional functions)
 - 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

For latest details, visit

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

WebSphere Adapters

- Email Adapter V7.0
 - As for WebSphere Process Server and WebSphere ESB
- Flat Files Adapter V7.0
 - As for WebSphere Process Server and WebSphere ESB
- FTP Adapter V7.0
 - As for WebSphere Process Server and WebSphere ESB
- JDBC Adapter V7.0
 - As for WebSphere Process Server and WebSphere ESB
- WebSphere Adapter for Lotus Domino V7
 - As for WebSphere Process Server and WebSphere ESB
- IBM i Adapter V7.0
 - Not supported on z/OS
- JD Edwards Adapter V7.0
 - Not supported on z/OS

- Oracle E-Business Suite Adapter V7.0
Not supported on z/OS
- PeopleSoft Adapter V7.0
 - Red Hat Enterprise Linux 4.0 AS (Update 4 or later)
 - SUSE Linux Enterprise Server 9.0 with Service Pack 2 or Service Pack 3
- SAP Software Adapter V7.0
 - z/OS V1.7 or later
 - z/OS.e V1.7 or later
 - Red Hat Enterprise Linux 4.0 AS (Update 4 or later)
 - Red Hat Enterprise Linux 5.0 Advanced Platform
 - SUSE Linux Enterprise Server 9.0 with Service Pack 2 or Service Pack 3
 - SUSE Linux Enterprise Server 10.0
- Siebel Adapter V7.0
Not supported on z/OS

For latest details, visit

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

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

Globalization

WebSphere Process Server for z/OS and WebSphere ESB for z/OS provide basic enablement support for all locales. In addition to English, both products provide translations for Japanese.

Note: WebSphere Process Server and WebSphere ESB include prerequisite and complementary products. These bundled prerequisite and complementary products will include translations for the following languages (if available):

- French
- Italian
- German
- Spanish
- Brazilian Portuguese
- Japanese
- Korean
- Simplified Chinese
- Traditional Chinese
- Czech
- Hungarian
- Polish
- Russian

Common Criteria evaluation

WebSphere Process Server and WebSphere ESB rely on security functionality from the WebSphere Application Server V7.0 runtime environment, and there has been no

direct security functionality added to these products. Therefore, a Common Criteria evaluation is not necessary because these products rely on the underlying runtime environment for security function and are neither Information Assurance (IA) nor IA-enabled.

FIPS 140-2

The cryptographic functionality of WebSphere Process Server and WebSphere ESB is managed by the WebSphere Application Server V7.0 runtime environment.

Extended entitlement

Extended entitlement (refer to Software announcement [205-206](#), dated September 6, 2005), as well as migration tooling support from WebSphere Business Integration heritage stack products, will continue for WebSphere Process Server V7.0 stack products. For information on extended entitlement activation, eligible products, and their equivalent entitled products, and general information about extended entitlement, visit the **Extended Entitlement** section at

<http://www.ibm.com/software/integration/wps/library/entitlement.html>

Customers should contact their IBM sales representatives for questions and additional assistance.

IBM plans to protect client investments and does not expect current clients to migrate immediately from currently entitled products to WebSphere Process Server. In order to facilitate the extended migration periods that some clients may require, IBM is offering extended entitlement. Clients with active subscription to eligible products can activate extended entitlement to WebSphere Process Server. For information on extended entitlement activation, eligible products and their equivalent extended entitlement products, and general information about extended entitlement, visit the **Entitlement** section at

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

Clients should contact their IBM sales representatives for questions and additional assistance.

WebSphere Adapters

WebSphere Adapters are packaged, ordered, and provided with the WebSphere Process Server, WebSphere ESB, and WebSphere Integration Developer products.

WebSphere Adapters V7.0 are licensed with each IBM application program that packages the adapter components. The terms of these programs complement and if necessary override the license terms of WebSphere Adapters. Refer to the respective application product unique terms (for example, WebSphere Integration Developer V7.0) to determine whether a separate license authorization is required to deploy and run each WebSphere Adapter.

When deploying WebSphere Adapter components for SAP, Siebel, PeopleSoft, JD Edwards, or Oracle E-Business Suite to WebSphere Process Server or WebSphere ESB, you must purchase a separate license entitlement for the appropriate WebSphere Adapter for all usages except unit testing under WebSphere Integration Developer. Refer to the [Ordering information](#) section for the license part numbers.

Charge metrics definitions for WebSphere Adapters

- **Per establishment.** If you have acquired an establishment authorization, you are permitted to deploy an unlimited number of copies of the licensed program only on servers that are located at a single site and at locations within 50 kilometers (31 miles) of that site.
- **Per application instance.** If you have acquired a per-application-instance authorization, you are permitted to deploy and run an unlimited number of copies of the licensed program on a single instance of a software deployment server supported by the program.

Media Extender for WebSphere Process Server

The same charge metric definitions apply as for WebSphere Adapters (refer to earlier text).

Direct customer support

WebSphere Process Server for z/OS and WebSphere ESB for z/OS

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

<http://www.ibm.com/support>

You may contact your IBM representative for additional assistance at 800-IBM-SERV (800-426-7378), option #2 for software.

This product delivers functionality (on CD-ROM or DVD, or downloaded to CD-ROM) that is intended for deployment on distributed (non-z/OS) systems. These applications are provided with entitlement for software defect support through a renewable subscription and support license for this product. Requests for defect service should be reported through the IBM Call Centers, specifying WebSphere Process Server for z/OS V7 or WebSphere ESB for z/OS V7.

For technical support or assistance, contact your IBM representative or visit

<http://www.ibm.com/support>

Packaging

WebSphere ESB, WebSphere Process Server, WebSphere Integration Developer, and Media Extender for WebSphere Process Server are Passport Advantage offerings. The offerings are distributed via electronic download. WebSphere ESB and WebSphere Process Server have media packs for each supported operating system. The offerings include support for all specified operating systems and languages.

The WebSphere ESB media packs contain the following items:

- License Information booklet o Hardcopy Quick Start Guide
- Quick Start CD-ROM o
- WebSphere ESB V7.0 DVDs
- WebSphere Application Server Network Deployment V7.0, WebSphere Application Server Network Deployment Edge Component V7.0, WebSphere Installation Factory V7.0, IBM Support Assistant (WorkBench and Agent) V4.0.2, IBM WorldType Fonts for WebSphere Application Server Network Deployment V7.0, and IBM DMZ Secure Proxy Server on CD-ROMs
- WebSphere Portal Add-in DVDs
- IBM DB2 Restricted Enterprise Server Edition V9.5 CD and DVDs
- IBM Data Server V9.5 DVDs
- IBM Rational Agent Controller V8 CD-ROM
- IBM Rational Application Developer Assembly and Deployment for WebSphere V7.5 CDs
- IBM Tivoli Directory Server V6.2 DVDs
- IBM Tivoli Access Manager for e-business V6.1 CD-ROMs

- IBM Tivoli Composite Application Manager for WebSphere Application Server V7.0 CD

The WebSphere Process Server media packs contain the following items:

- License Information booklet
- Hardcopy Quick Start Guide
- Quick Start CD-ROM
- WebSphere Process Server V7.0 DVDs
- WebSphere Application Server Network Deployment V7.0, WebSphere Application Server Network Deployment Edge Component V7.0, WebSphere Installation Factory V7.0, IBM Support Assistant (WorkBench and Agent) V4.0.2, IBM WorldType Fonts for WebSphere Application Server Network Deployment V7.0, and IBM DMZ Secure Proxy Server on CD-ROMs
- WebSphere Portal Add-in DVDs
- IBM DB2 Restricted Enterprise Server Edition V9.5 CD and DVDs
- IBM Data Server V9.5 DVDs IBM Rational Agent Controller V8 CD-ROM
- IBM Rational Application Developer Assembly and Deployment for WebSphere V7.5 CDs
- IBM Tivoli Directory Server V6.2 DVDs
- IBM Tivoli Access Manager for e-business V6.1 CD-ROMs
- IBM Tivoli Composite Application Manager for WebSphere Application Server V7.0 CD

The DVDs and CD-ROMs for WebSphere ESB and WebSphere Process Server are organized in groups based on supported operating system platforms. One group is provided for each supported operating system platform: Windows, AIX, Solaris, HP-UX, Linux on x86, Linux on System i and System p, and Linux on System z. For download purposes, one electronic assembly is provided that maps to each of these groupings.

The WebSphere Integration Developer media pack contains the following items:

- License Information booklet
- Hardcopy Quick Start Guide
- Quick Start CD-ROM o
- WebSphere Integration Developer V7.0 Linux and Windows DVDs
- CICS Transaction Gateway V7.2.0.1 Linux and Windows CD-ROMs
- IBM Lotus Forms Viewer V3.5.1 DVDs
- IBM Lotus Forms Server V3.5.1 DVDs

WebSphere Integration Developer also includes the following WebSphere Adapters:

- WebSphere Adapter for JDBC V7.0
- WebSphere Adapter for Flat Files V7.0
- WebSphere Adapter for Email V7.0
- WebSphere Adapter for FTP V7.0
- WebSphere Adapter for IBM i V7.0
- WebSphere Adapter for Lotus Domino V7.0

The Media Extender for WebSphere Process Server media pack contains the following items:

- Hardcopy Quick Start Guide
- Media Extender for WebSphere Process Server V7.0 CD

The following information applies to both WebSphere Process Server for z/OS V7.0 and WebSphere ESB for z/OS V7.0.

Program components are delivered by traditional z/OS fulfillment:

- CBPDO
- ServerPac

Program components intended to run on the z/OS platform are delivered on a single tape. WebSphere Application Server for z/OS V7.0 (with the latest available service level) is included on both the WebSphere Process Server for z/OS and WebSphere ESB for z/OS product tapes.

In addition to the components intended to run on the z/OS platform, there are several which are intended to run on non-z/OS systems. They are described in the following paragraphs.

In addition to the materials provided on tape, the following CD-ROMs and DVDs are included:

- WebSphere Process Server Clients DVDs (WebSphere Process Server for z/OS only)
- WebSphere Application Server Network Deployment Supplements V7.0 CD-ROMs (WebSphere Process Server for z/OS only)
- Edge Components V7.0 CD-ROMs (WebSphere Process Server for z/OS only)
- IBM Tivoli Access Manager V6.1 CD-ROMs (WebSphere Process Server for z/OS only)
- IBM Rational Agent Controller V8.0 CD-ROM
- IBM Rational Application Developer V7.5 CD-ROM
- IBM Support Assistant Workbench V4.0.2 CD-ROM
- IBM WebSphere Customization Tools CD-ROM

All of these CD-ROMs and DVDs are intended to be installed and run on non-z/OS platforms.

WebSphere Integration Developer V7.0 includes the following WebSphere Adapters:

- WebSphere Adapter for JDBC V7
- WebSphere Adapter for Flat Files V7
- WebSphere Adapter for Email V7
- WebSphere Adapter for FTP V7
- WebSphere Adapter for IBM i V7
- WebSphere Adapter for Lotus Domino V7

Security, auditability, and control

The products in this Software Announcement use the security and auditability features of 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.

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/>

Ordering information

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software ValueNet®.

For more information about IBM Software ValueNet, visit

http://www-01.ibm.com/software/lotus/passportadvantage/IBM_SW_ValueNet.html

To locate IBM Business Partners for Software ValueNet in your geography for a specific Software ValueNet portfolio, contact your IBM representative.

Product group: Application Integration Middleware
Product category: Application Connectivity

	Product Identifier Description (PID)
IBM WebSphere Process Server for z/OS	5655-w05
IBM WebSphere Enterprise Service Bus for z/OS	5655-w09
IBM WebSphere Process Server	5724-L01
IBM WebSphere Enterprise Service Bus	5724-I82
IBM WebSphere Integration Developer	5724-I66
IBM Media Extender for WebSphere Process Server	5724-V32

Charge metric

Program name	PID number	Charge metric
WebSphere Enterprise Service Bus for z/OS v7.0	5655-w09	value Unit
WebSphere Process Server for z/OS v7.0	5655-w05	Value Unit
WebSphere Process Server v7.0	5724-L01	Processor Value Unit
WebSphere Enterprise Service Bus v7.0	5724-I82	Processor Value Unit
WebSphere Integration Developer v7.0	5724-I66	Authorized User
Media Extender for WebSphere Process Server v7.0	5724-V32	Application Instance
Media Extender for WebSphere Process Server v7.0	5724-V32	Establishment

WebSphere Adapter for JD Edwards EnterpriseOne	5724-N41	Application Instance
WebSphere Adapter for JD Edwards EnterpriseOne	5724-N41	Establishment
WebSphere Adapter for Oracle E-Business Suite	5724-N40	Establishment
WebSphere Adapter for Oracle E-Business Suite	5724-N40	Application Instance
WebSphere Adapter for PeopleSoft Enterprise	5724-L81	Establishment
WebSphere Adapter for PeopleSoft Enterprise	5724-L81	Application Instance
WebSphere Adapter for SAP Software	5724-L79	Establishment
WebSphere Adapter for SAP Software	5724-L79	Application Instance
WebSphere Adapter for Siebel Business Applications	5724-L80	Application Instance
WebSphere Adapter for Siebel Business Applications	5724-L80	Establishment

Processor Value Unit (PVU)

PVU is a unit of measure by which these distributed software products can be licensed. PVU entitlements are based on processor technology (defined within the PVU table¹ by processor vendor, brand, type and model number). IBM continues to define a processor, for purposes of PVU-based licensing, to be each processor core on a chip. Each software product has a unique price per PVU. To determine the total cost of deploying an individual software product in a specific hardware environment, you must take the following steps:

1. For each processor core in the hardware environment on which the software product is to be licensed, determine the PVU requirement based on its processor technology per the PVU table.¹
2. The PVU requirements for all processor cores in the hardware environment.
3. Multiply the software product's price per PVU by the total number of PVUs required as determined in step 2 above.

PVU entitlements are specific to a software product and may not be exchanged, interchanged, or aggregated with PVU entitlements of another software product.

Unless you have deployed eligible sub-capacity products according to the sub-capacity¹ terms, you must obtain PVU Proof of Entitlements (PoEs) for the maximum number of activated² physical processor cores in the hardware environment made available to, or managed by, the software product. This is also referred to as full capacity licensing.

- 1** For information regarding PVU and sub-capacity licensing, including the latest PVU table, visit http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html
- 2** Activated processor cores are physical processor cores that are available for use in a server. They include processor cores:
 - That are activated (available for use) when the server is shipped by the manufacturer
 - That are activated subsequently through activation codes purchased from the server manufacturer by the customer

- Whose capacity can be limited by the customer through virtualization technologies, operating system commands and BIOS settings

The z/OS programs in this announcement have Value Unit-based pricing.

Program Number	Program Name	Value Unit Exhibit
5655-w09	WebSphere Enterprise Service Bus for z/OS v7.0	VUE007
5655-w05	WebSphere Process Server for z/OS v7.0	VUE007

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full-capacity or sub-capacity

Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to value Units

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

WebSphere Process Server for z/OS and WebSphere ESB for z/OS

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Passport Advantage trade-up

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade-up part numbers.

Precursor product	Trade-up product	Trade-up part number
WebSphere ESB Qualified Competitor	WS ESB Value Unit from Qualified Comp Trdup Lic + SW S&S 12 Months	D58AHL
WebSphere Application Server ND	WS ESB Value Unit from WAS ND Value Unit Tradeup Lic + SW S&S 12 Months	D58AGLL
WebSphere Process Server Qualified Competitor	WPS Value Unit from Qualified Competitor Tradeup Lic + SW S&S 12 Months	D5736LL
WAS ND per processor	WPS Value Unit fr WAS ND Value Unit Trdup Lic + SW S&S 12 Months	D5735LL
WebSphere ESB per processor	WPS Value Unit from WebSphere ESB Trdup Lic + SW S&S 12 Months	D581ALL
WebSphere Integration Developer Authorized User	Rational Application Dev WID Auth Usr from Rational Application Developer Dev Auth Usr Trdup Lic + SW S&S 12 Months	D5573LL
Qualified Competitor Authorized User	WID Auth Usr from Qualified Competitor Auth Usr Trdup Lic + SW S&S 12 Months	D5574LL
Qualified Competitor Auth User	WID Auth User System z from Qualified Competitor Trdup Lic + SW S&S 12 Months	D56X9LL
RAD Authorized User	WID Auth User System z from RAD Authorized User Trdup Lic + SW S&S 12 Months	D56X8LL

WebSphere ESB Qualified Competitor	WS ESB Linux z Value Unit for Qualified Competitor Trdup Lic + SW S&S 12 Months	D58ANLL
WebSphere Application Server Network Deployment	WebSphere ESB Linux z Value Unit from WAS ND Linux z VU Trdup Lic + SW S&S 12 Months	D58AMLL
WebSphere Process Server Qualified Competitor	WebSphere Process Server Multiplatforms VU Linux z from Qualified Competitor Tradeup License + SW S&S 12 Months	D58B3LL
WebSphere Network Deployment processor Linux on z	WebSphere Process Server Multiplatforms VU Linux on z from WAS ND VU Linux on z Trdup Lic + SW S&S 12 Months	D58B5LL
WebSphere Enterprise Service Bus	WebSphere Process Server Multiplatforms VU Linux on z from WESB VU Linux on z Trdup Lic + SW S&S 12 Months	D58B4LL

Consult your IBM representative if you have any questions.

Passport Advantage customer: Media pack entitlement details

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

Part description	Part number
WebSphere Process Server Multiplatform Value Unit Annual SW S&S Renewal	E02ECLL
WebSphere Process Server Multiplatform Value Unit Lic + SW S&S 12 Months	D572ZLL
WebSphere Process Server Multiplatform Value Unit SW S&S Reinstate 12 Months	D5734LL
WebSphere Process Server Multiplatform Processor Day OoCoD Temporary Use Charge	D55F8LL
WebSphere Enterprise Service Bus Value Unit Annual SW S&S Renewal	E02J3LL
WebSphere Enterprise Service Bus Value Unit Lic + SW S&S 12 Months	D58AELL
WebSphere Enterprise Service Bus Value Unit SW S&S Reinstate 12 Months	D58AFLL
WebSphere Enterprise Service Bus Processor Day OoCoD Temporary Use Charge	D56UWLL
WebSphere Integration Developer Authorized User Annual SW S&S Renewal	E01UDLL
WebSphere Integration Developer Authorized User License + SW S&S 12 Months	D5571LL
WebSphere Integration Developer Authorized User SW S&S Reinstate 12 Months	D5572LL

Media Extender for WebSphere Process Server Application Instance(s) Lic & SW S&S 12 Months	D04Q3LL
Media Extender for WebSphere Process Server Application Instance(s) SW S&S Reinstatement 12 Months	D04Q4LL
Media Extender for WebSphere Process Server Application Instance(s) SW S&S Annual Renewal	E056XLL
Media Extender for WebSphere Process Server Establishment Lic & SW S&S 12 Months	D04Q1LL
Media Extender for WebSphere Process Server Establishment Software S&S Annual Renewal	E056WLL
Media Extender for WebSphere Process Server Establishment Software S&S Reinstatement 12 Months	D04Q2LL
WebSphere Integration Developer Authorized User for System z Annual SW S&S Renewal	E02CJLL
WebSphere Integration Developer Authorized User for System z Lic + SW S&S 12 Months	D56X6LL
WebSphere Integration Developer Authorized User for System z SW S&S Reinstatement 12 Months	D56X7LL
WebSphere Adapter for SAP Software per Establishment System z Annual SW S&S Renewal	E02HSL
WebSphere Adapter for SAP Software per Establishment System z Lic + SW S&S 12 Months	D5832LL
WebSphere Adapter for SAP per Establishment System z SW S&S Reinstatement 12 Months	D5834LL
WebSphere Adapter Oracle for E-Business per Establishment for System z Annual SW S&S Renewal	E031RLL
WebSphere Adapter Oracle for E-Business per Establishment for System z Lic + SW S&S 12 Months	D59LGLL
WebSphere Adapter Oracle for E-Business per Establishment for System z SW S&S Reinstatement 12 Months	D59LHLL
WebSphere Adapter for Oracle E-Business Suite per Application Instance Annual SW S&S Renewal	E031SLL
WebSphere Adapter for Oracle E-Business Suite per Application Instance Lic + SW S&S 12 Months	D59LILL
WebSphere Adapter for Oracle E-Business Suite per Application Instance SW S&S Reinstatement 12 Months	D59LJLL
WebSphere Adapter for Oracle E-Business Suite per Establishment Annual SW S&S Renewal	E031TLL
WebSphere Adapter for Oracle E-Business Suite per Establishment Lic + SW S&S 12 Months	D59LKLL
WebSphere Adapter for Oracle E-Business Suite per Establishment SW S&S Reinstatement 12 Months	D59LLLL

webSphere Adapter for PeopleSoft Enterprise per Establishment Annual SW S&S Renewal	E01TXLL
webSphere Adapter for PeopleSoft Enterprise per Establishment Lic + SW S&S 12 Months	D555VLL
webSphere Adapter for PeopleSoft Enterprise per Establishment SW S&S Reinstate 12 Months	D555WLL
webSphere Adapter for PeopleSoft Enterprise per Application Instance Annual SW S&S Renewal	E01TZLL
webSphere Adapter for PeopleSoft Enterprise per Application Instance Lic + SW S&S 12 Months	D555ZLL
webSphere Adapter for PeopleSoft Enterprise per Application Instance SW S&S Reinstate 12 Months	D5560LL
webSphere Adapter for SAP Software per Application Instance Annual SW S&S Renewal	E01TYLL
webSphere Adapter for SAP Software per Application Instance Lic + SW S&S 12 Months	D555XLL
webSphere Adapter for SAP Software per Application Instance SW S&S Reinstate 12 Months	D555YLL
webSphere Adapter for SAP Software per Establishment Annual SW S&S Renewal	E01U0LL
webSphere Adapter for SAP Software per Establishment Lic + SW S&S 12 Months	D5561LL
webSphere Adapter for SAP Software per Establishment SW S&S Reinstate 12 Months	D5562LL
webSphere Adapter for JD Edwards EnterpriseOne Application Instance Annual SW S&S Renewal	E031YLL
webSphere Adapter for JD Edwards EnterpriseOne Application Instance Lic + SW S&S 12 Months	D59LVLL
webSphere Adapter for JD Edwards EnterpriseOne Application Instance SW S&S Reinstate 12 Months	D59LWLL
webSphere Adapter for JD Edwards EnterpriseOne per Establishment Annual SW S&S Renewal	E031XLL
webSphere Adapter for JD Edwards EnterpriseOne per Establishment Lic + SW S&S 12 Months	D59LTLL
webSphere Adapter for JD Edwards EnterpriseOne per Establishment SW S&S Reinstate 12 Months	D59LULL
webSphere Adapter for Siebel Business Applications per Establishment Annual SW S&S Renewal	E01U1LL
webSphere Adapter for Siebel Business Applications per Establishment Lic + SW S&S 12 Months	D5564LL
webSphere Adapter for Siebel Business Applications per Establishment SW S&S Reinstate 12 Months	D5565LL
webSphere Adapter for Siebel Business Applications per Application Instance Annual SW S&S Renewal	E01U2LL

WebSphere Adapter for Siebel Business Applications per Application Instance Lic + SW S&S 12 Months	D5566LL
WebSphere Adapter for Siebel Business Applications per Application Instance SW S&S Reinstate 12 Months	D5567LL
WebSphere Process Server V7.0 windows Multilingual Media Pack	BA0WDML
WebSphere Process Server V7.0 AIX Multilingual Media Pack	BA0WEML
WebSphere Process Server V7.0 Solaris Multilingual Media Pack	BA0WFML
WebSphere Process Server V7.0 HP-UX Multilingual Media Pack	BA0WGML
WebSphere Process Server V7.0 Linux x86 Multilingual Media Pack	BA0WHML
WebSphere Process Server V7.0 Linux POWER Multilingual Media Pack	BA0WIML
WebSphere Process Server V7.0 Linux Z Multilingual Media Pack	BA0WJML
WebSphere Enterprise Service Bus V7.0 windows Multilingual Media Pack	BA0WKML
WebSphere Enterprise Service Bus V7.0 AIX Multilingual Media Pack	BA0WLML
WebSphere Enterprise Service Bus V7.0 Solaris Multilingual Media Pack	BA0WML
WebSphere Enterprise Service Bus V7.0 HP-UX Multilingual Media Pack	BA0WNML
WebSphere Enterprise Service Bus V7.0 Linux x86 Multilingual Media Pack	BA0WPML
WebSphere Enterprise Service Bus V7.0 Linux POWER Multilingual Media Pack	BA0WQML
WebSphere Enterprise Service Bus V7.0 Linux Z Multilingual Media Pack	BA0WRML
WebSphere Integration Developer V7.0 windows and Linux Multilingual Media Pack	BA0XXML
Media Extender for WebSphere Process Server V7.0	BA0WUNA

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 Integrated Facility for Linux (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
WebSphere ESB Linux on z Value Unit Annual SW S&S Rnw1	E02J5LL
WebSphere ESB Linux on z Value Unit Lic + SW S&S 12 Months	D58AKLL
WebSphere ESB Linux on z Value Unit SW S&S Reinstate 12 Months	D58ALLL
WebSphere Process Server Multiplatforms Value Unit Linux z Annual SW S&S Rnw1	E02E7LL
WebSphere Process Server Multiplatforms Value Unit Linux z Lic + SW S&S 12 Months	D572HLL
WebSphere Process Server Multiplatforms Value Unit Linux z SW S&S Reinstate 12 Months	D572LLL

WebSphere Adapter for Oracle E-Business for Linux on System Z Establishment License + SW S&S 12 Months	D0BA1LL
WebSphere Adapter for Oracle E-Business for Linux on System Z Establishment Annual SW S&S Renewal	E07VHLL
WebSphere Adapter for Oracle E-Business for Linux on System Z Establishment SW S&S Reinstatement 12 Months	D0BA2LL
WebSphere Adapter for SAP Software for Linux on System Z Establishment License + SW S&S 12 Months	D0B3HLL
WebSphere Adapter for SAP Software for Linux on System Z Establishment Annual SW S&S Renewal	E07T1LL
WebSphere Adapter for SAP Software for Linux on System Z Establishment SW S&S Reinstatement 12 Months	D0B3ILL
WebSphere Adapter for PeopleSoft Enterprise for Linux on System Z Establishment License + SW S& 12 Months	D0B2XLL
WebSphere Adapter for PeopleSoft Enterprise for Linux on System Z Establishment Annual SW S&S Renewal	E07SMLL
WebSphere Adapter for PeopleSoft Enterprise for Linux on System Z Establishment SW S&S Reinstatement 12 Months	D0B2YLL
WebSphere Adapter for Siebel Business Applications for Linux on System Z Establishment License + SW S&S 12 MONTHS	D0B5HLL
WebSphere Adapter for Siebel Business Applications for Linux on System Z Establishment Annual SW S&S Renewal	E07TZLL
WebSphere Adapter for Siebel Business Applications for Linux on System Z Establishment SW S&S Reinstatement 12 Months	D0B5ILL

Basic license

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

WebSphere Enterprise Service Bus for z/OS V7.0 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name WebSphere Enterprise Service Bus for z/OS V7.0
 Program PID 5655-w09

Entitlement identifier	Description	License option/Pricing metric
S015MTC	WebSphere ESB for z/OS V7.0	Basic OTC, Per MSU-day TUC

WebSphere Process Server for z/OS V7.0 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name WebSphere Process Server for z/OS V7.0
Program PID 5655-W05

Entitlement identifier	Description	License option/Pricing metric
S015P1C	WebSphere Process Server for z/OS V7.0	Basic OTC, Per MSU-day TUC

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27
Tier D	316+	0.20

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

WebSphere ESB for z/OS - Value Unit Ordering

Program Name WebSphere Enterprise Service Bus for z/OS V7.0

Program PID 5655-W09

The following information is a summary of all license options and pricing metrics offered for the previously described PID number.

Entitlement identifier	Description	License options/Pricing metrics
S015MTC	WebSphere ESB for z/OS V7.0	Basic OTC, Value Units
S015MTC	WebSphere ESB for z/OS V7.0 Trade-up from WebSphere Application Server for z/OS V7.0 (5655-N02)	Basic OTC, value Units

Orderable supply ID	Language	Distribution medium
S015MTB	English	3480 tape
	Japanese	uncompressed

Note: Additional media type selections (3480 compressed, 3490E, 3590, 3592) are offered during Custom Build offering ordering.

Subscription and Support PID 5655-R16

The following information is a summary of all license options and pricing metrics offered for the above PID number.

Entitlement identifier	Description	License options/pricing metrics
S012HBJ	WebSphere ESB for z/OS Subscription and Support	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S012HBH	English	Paper

WebSphere Process Server for z/OS - Value Unit Ordering

Program Name WebSphere Process Server for z/OS v7.0
Program PID 5655-w05

The following information is a summary of all license options and pricing metrics offered for the above PID number.

Entitlement identifier	Description	License options/Pricing metrics
S015P1C	WebSphere Process Server for z/OS v7.0	Basic OTC, Value Units
S015P1C	WebSphere Process Server for z/OS v7.0 -Trade-up from WebSphere Application Server for z/OS (5655-N02)	Basic OTC, Value Units
S015P1C	WebSphere Process Server for z/OS v7.0 -Trade-up from WebSphere ESB for z/OS (5655-W09)	Basic OTC, Value Units

Orderable supply ID	Language	Distribution medium
S015P1B	English Japanese	3480 tape

Note: Additional media type selections (3480 compressed, 3490E, 3590, 3592) are offered during Custom Build Offering ordering.

Notes

- When WebSphere ESB for z/OS is acquired as a program trade up from WebSphere Application Server for z/OS and installed, you may not use, or transfer use of, the program from which you traded.
- After a trade up from WebSphere Application Server for z/OS, you will be entitled to use the version of WebSphere Application Server for z/OS that is included with WebSphere ESB for z/OS. You will receive updates of WebSphere Application Server for z/OS as part of updates to WebSphere ESB for z/OS.
- Clients who need to always stay current with the latest version of release of WebSphere Application Server for z/OS should be licensed to WebSphere Application Server for z/OS independently in addition to WebSphere ESB for z/OS.

Subscription and Support PID 5655-P27

The following information is a summary of all license options and pricing metrics offered for the above PID number.

Entitlement identifier	Description	License options/Pricing metrics
S0124HZ	WebSphere Process Server for z/OS S&S	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S012HBK	English	Paper

Single version charging

To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

Customized Offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the Customized Offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs - 3480, 3480 Compressed, 3490E, 3590, and 3592³
- ServerPacs - 3480, 3480 Compressed, 3490E, 3590, and 3592³
- SystemPacs - 3480, 3480 Compressed, 3490E, 3590, and 3592³

³ 3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Terms and conditions for distributed products

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

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of

Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support (also referred to as Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information form number

LC23-5077 (part number CT5IPML). The licenses for WebSphere ESB and WebSphere Process Server (L-YWAG-7S2SFZ), WebSphere Integration Developer (L-LCHG-7V36H5), and Media Extender for WebSphere Process Server (L-SBRY-7UEJE6) will be available for review on the IBM Software License Agreement Web site

<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 of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

<http://www.ibm.com/support/handbook>

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 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, 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.

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.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Authorization for use on home/Portable computer

You may not copy and use this program on another computer without paying additional license fees.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage Web site at

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

Usage restriction

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement Web site

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

Software Subscription and Support (Software Maintenance) applies

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by the Software Subscription and Support (Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (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.

While your Software Subscription and Support (Software Maintenance) is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your *IBM Software Support Handbook* at

<http://www.ibm.com/support/handbook>

Software Subscription and Support (Software Maintenance) does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage Web site at

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

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support (Software Maintenance) is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your *IBM Software Support Handbook* at

<http://www.ibm.com/support/handbook>

Software Subscription and Support (Software Maintenance) does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

For more information about the Passport Advantage Agreement, visit the Passport Advantage Web site at

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

Variable charges apply

No

Educational allowance available

Not applicable.

Terms and conditions for host products

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance

(voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

LC23-5077. The license for WebSphere ESB for z/OS and WebSphere Process Server for z/OS (L-YWAG-7UKVZ3) will be available for review on the IBM Software License Agreement Web site

<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 of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

<http://www.ibm.com/support/handbook>

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 will be available for a minimum of five years from the general availability date, as long as your Subscription and Support 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. Subscription and Support also provides you with access to updates, 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.

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.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Authorization for use on home/Portable computer

You may not copy and use this program on another computer without paying additional license fees.

Volume orders (IVO)

No

Passport Advantage applies

No

Usage restriction

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement Web site

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

Software Subscription and Support (Software Maintenance) applies

No

For Operating System software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Yes. A 15% education allowance applies to qualified education institution customers.

Sub-capacity terms and conditions for host products

WebSphere Process Server for z/OS and WebSphere ESB for z/OS

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms
5655-W05	WebSphere Process Server for z/OS v7.0	Execution-based
5655-W09	WebSphere ESB for z/OS v7.0	Execution-based

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full-machine-based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

IBM Getting Started Sub-capacity Pricing for z/OS IPLA Software applies.

z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS (and z/OS.e) on the machines where the System z IPLA program executes.

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full-machine-based: The required license capacity of a System z IPLA program with full-machine-based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to The IBM System z Machines Exhibit, (Z125-3901), or visit the Mainframes section of the System z Exhibits Web site

<http://ibm.com/zseries/library/swpriceinfo/>

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement [204-184](#), dated August 10, 2004.

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex®. You may have one or more different environments across the

enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- That meets the criteria defined in Hardware Announcement [198-001](#), dated January 13, 1998
- Where MLC pricing is aggregated across the sysplex

Sub-capacity eligibility

To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS (or z/OS.e) operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating (or z/OS.e) systems must be running in z/Architecture® (64-bit) mode

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing Web site

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM eServer™ System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for IBM System z9® and eServer zSeries® Programs Sub-Capacity Pricing (Z125-6929)*. Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

IBM Getting Started Sub-capacity Pricing for z/OS IPLA Software applies.

Sub-capacity utilization determination for host products

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

On/Off Capacity on Demand (CoD) for host products

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand - Software (Z125-6611) must be signed prior to use.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

Prices

Contact your local IBM representative for applicable charges.

Program name/Description
webSphere ESB v7.0
webSphere Process Server v7.0
webSphere Integration Developer v7.0
Media Extender for WebSphere Process Server v7.0

For current prices, visit

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative, authorized IBM Business Partner, or authorized IBM Business Partner for Software ValueNet, if applicable. Additional information is also available at

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

On/Off Capacity on Demand

WebSphere Enterprise Service Bus for z/OS V7.0 - OOCoD

WebSphere Enterprise Service Bus for z/OS V7.0 is eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

Program Name WebSphere Enterprise Service Bus for z/OS V7.0
Program PID 5655-w09

Entitlement Identifier	Description	License options/Pricing metrics
S015MTC	webSphere ESB for z/OS V7.0	Basic OTC, Per MSU-day TUC

WebSphere Process Server for z/OS V7.0 - OOCoD

WebSphere Process Server for z/OS V7.0 is eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

Program Name WebSphere Process Server for z/OS V7.0
Program PID 5655-w05

Entitlement Identifier	Description	License options/Pricing metrics
S015P1C	WebSphere Process Server for z/OS V7.0	Basic OTC, Per MSU-day TUC

WebSphere Enterprise Service Bus for z/OS V7.0 - Value unit

Program Name WebSphere Enterprise Service Bus for z/OS V7.0
Program PID 5655-w09

The following information is a summary of all license options/pricing metrics offered for the above PID number.

Entitlement Identifier	Description	License options/Pricing metrics
S015MTC	webSphere ESB for z/OS V7.0	Basic OTC, Value Units
S015MTC	webSphere ESB for z/OS V7.0 Trade-up from webSphere Application Server for z/OS V7.0 (5655-N02)	Basic OTC, Value Units

Subscription and Support PID 5655-R16

The following information is a summary of all license options/pricing metrics offered for the above PID number.

Entitlement Identifier	Description	License options/Pricing metrics
S012HBJ	webSphere ESB for z/OS S&S	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration

WebSphere Process Server for z/OS V7.0 - Value unit

Program Name WebSphere Process Server for z/OS V7.0
Program PID 5655-w05

The following information is a summary of all license options/pricing metrics offered for the above PID number.

Entitlement Identifier	Description	License options/Pricing metrics
S015P1C	WebSphere Process Server for z/OS V7.0	Basic OTC, Value Units
S015P1C	WebSphere Process Server for z/OS V7.0 - Trade-up from WebSphere Application Server for z/OS (5655-N02)	Basic OTC, Value Units
S015P1C	WebSphere Process Server for z/OS - Trade-up from WebSphere ESB for z/OS V7.0 (5655-w09)	Basic OTC, Value Units

Subscription and Support PID 5655-P27

The following information is a summary of all license options/pricing metrics offered for the above PID number.

Entitlement Identifier	Description	License options/Pricing metrics
S0124HZ	WebSphere Process Server for z/OS S&S	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration

Subscription and Support

To receive voice technical support via telephone during normal business hours and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions at no additional charge. Note that the customer is not entitled to new products.

When Subscription and Support is ordered, the charges will renew automatically annually unless cancelled by the customer.

New annual license charges for Subscription and Support for selected programs will be effective with the billing period that starts on or after January 1, 2010.

Description	Program number
WebSphere ESB for z/OS V7.0	5655-w09
WebSphere Process Server for z/OS V7.0	5655-w05

For current prices, visit

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

Variable charges: The applicable processor-based one-time charge will be based on the group of the designated machine on which the program is licensed for use. If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software ValueNet. Additional information is also available at:

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

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Extended support attachments

For current prices, visit

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

Order now

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

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Note: Shipments will begin after the planned availability date.

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Corrections

(Corrected on December 1, 2009)

The Packaging section is revised.

(Corrected on October 16, 2009)

The Software requirements section is revised.