



IBM WebSphere Process Server for z/OS , WebSphere Integration Developer, and WebSphere Enterprise Service Bus for z/OS V6.2 enable dynamic processes and flexible connectivity for agile business solutions

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At a glance

WebSphere® Process Server for z/OS® V6.2, WebSphere Enterprise Service Bus for z/OS V6.2, and WebSphere Integration Developer V6.2 deliver:

- A compelling new Web 2.0 user interface for working with human tasks, business rules, and business calendars
- Enhanced flexibility and control over process instances for both business users and business process administrators
- A simplified process for application deployment and improved user productivity for ongoing application operation and administration
- A powerful and flexible development and runtime environment with support for the latest technologies and standards
- Support for the WebSphere Application Server Web Services Feature Pack and Soap 1.2
- Tooling based on Eclipse V3.4
- Accelerated iterative development between business analysts and IT developers
- A simplified authoring experience that accelerates solution development, including enhanced mediation tooling support
- New policy-driven ESB mediation, including integration with WebSphere Service Registry and Repository
- Extended platform and infrastructure currency, including support for IBM® z/OS and z/OS.e V1.9
- WebSphere Adapters V6.2, to help with business integration by connecting to your application and information assets

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE001).

Overview

WebSphere Process Server for z/OS is at the heart of your business process automation and management solutions. It is designed to 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 for z/OS deploys and executes processes that orchestrate services (people, information,

systems, and trading partners) within your system 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, the WebSphere Enterprise Service Bus (ESB) for z/OS functionality. Refer to the [Description](#) section for new features.

WebSphere ESB for z/OS 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 z/OS 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. Refer to the [Description](#) section for new features.

WebSphere Process Server for z/OS and WebSphere ESB for z/OS are both supported by WebSphere Integration Developer as the Eclipse-based tool for building SOA-based business process management (BPM) and integration solutions for deployment on any server platform, including z/OS. Refer to the [Description](#) section for new features.

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.

Key prerequisites

z/OS or z/OSe V1.8, or later

Planned availability date

December 12, 2008

Description

WebSphere Process Server for z/OS

WebSphere Process Server for z/OS delivers a unique integration framework that can simplify existing IT. Often, as IT assets grow to support business demand, so too does their complexity and manageability. WebSphere Process Server helps deliver an SOA infrastructure with one common model to orchestrate, mediate, connect, map, and execute the underlying IT functions. With this, WebSphere Process Server is designed to simplify the integration of business processes by leveraging existing IT assets as reusable services, but without the complexities associated with traditional integration methodologies.

One of the biggest challenges for businesses is to have the agility to respond on demand to business processes. Unlike traditional integration methodologies, WebSphere Process Server allows you to respond dynamically to business demands and adapt to business conditions. This is accomplished with rich features like business rules, business state machines, and interface mapping. Its open standards-based services architecture allows you to change underlying IT assets, with minimal impact on business processes.

WebSphere Process Server for z/OS is part of an entire integration platform that reaches to the very core of business applications such as SAP, Oracle, and many others by using predefined business and technology WebSphere adapters.

WebSphere Process Server for z/OS is built using a common platform and tools that inherit the capabilities of WebSphere ESB and WebSphere Application Server, which provides rich capability. It also exploits technology from other IBM software such as DB2®, IBM Tivoli®,

IBM Lotus®, and IBM Rational®, as well as third-party platforms such as Microsoft® .NET and Java™.

New features in WebSphere Process Server for z/OS V6.2

Designed to empower business users by providing real-time access to critical process information, and give the ability to interact with processes to influence runtime process execution in response to changing business conditions:

- Extends the capabilities for the business user introduced in WebSphere Process Server V6.1.2 -- leveraging the common Business Space powered by WebSphere user interface -- for worklist and task management with new features, such as the ability to view the related business process or task history information from the human workflow diagram, as well as the ability for business users to create, view, modify, verify status and cancel subtasks from within their Business Space.
- Enables business users with enhanced flexibility and control over runtime processes through the ability to characterize a collection of process activities and their associated data as a collaboration scope, enabling them to modify the flow of steps within those in-flight process instances by skipping and redoing activities, and adding additional human tasks from within Business Space.
- Delivers the new Timetable Manager widget in their Business Space that enables business users to add, update, and delete calendar event information to reflect changes based on ongoing business operations. Enables role-based access to business calendar configured through security widgets in Business Space.
- Enables directed deployment from WebSphere Business Modeler into WebSphere Process Server, enabling a user to directly deploy models to the run time.

Delivers powerful enhancements that simplify the process of application deployment, grant additional control over the artifacts in the deployment environment, and improve user productivity for ongoing application operation and administration:

- Simplifies the identification of failed flows by using a graphical Tree view that correlates log statements and errors that appear in the system out log, enabling faster problem determination.
- Supports direct deployment of executable process models from WebSphere Business Modeler.
- Introduces enhancements that enable module versioning, as well as module-aware service versioning (SCA bindings only).
- Enables configuration for role-based access to timetable information in the run-time environment via Business Space widgets.
- Supports the population of relationship tables with instance data via SQL script or Java program, eliminating the need for manual data entry.
- Enables easier installation and configuration of WebSphere Process Server, which is key to a successful deployment of your SOA infrastructure. New installation and configuration enhancements that increase usability and speed time-to-value include a full installation of WebSphere Process Server V6.2, including WebSphere Application Server Network Deployment and the Web Services Feature Pack for WebSphere Application Server, with the creation of a profile that includes the Web Services Feature Pack augmentation; improved installation error determination after a installation failure or partial success; an installation verification tool that validates that the installation produced a successful server configuration; Installation Factory Integrated Install Package (IIP) support for creating custom installation packages; and scripting capabilities for configuration of production environments.
- Improves the installation experience on z/OS with enhancements that include a reduction in the number of authentication aliases generated for resources within WebSphere Process Server for z/OS, the ability for customers to use the zPMT configuration tool to create augment response files for use in augmenting their WebSphere Process Server for z/OS installation, and the generation of more consumable Data Definition Language (DDL).
- Simplifies problem determination with consistent fault support across bindings (including tooling in WebSphere Integration Developer) and unified failed event management across all components (including mediations).
- Empowers the Administrator with business administration widgets in Business Space for monitoring the health of the system. They also provide additional information from the Administration Console including SCA module details, Enterprise Java Beans (EJB) Import

Binding information, and contextual links throughout the panels, in addition to providing more control when installing an SCA module via the Administration Console or equivalent scripting, and optionally deploying it to a target server or cluster.

- Simplifies the management of the Service Integration Bus with a new browser view that is tailored to the end user who explores existing buses in support of ongoing operations.

Delivers enhancements to facilitate faster and more effective development, testing, deployment, and execution of business process solutions.

- Delivers enhancements to more easily support additional use cases, including true support for arrays, discovery enablement for JAX-WS and JAXB2-based Java services.
- Supports out-of-the-box data handlers across all bindings, as configured in WebSphere Integration Developer.
- Delivers capabilities to build more flexible and intelligent process solutions through the ability to access business context information and programmatically propagate that context across all binding types.
- Delivers process model extensions for business process management notation (BPMN) support, including processes defined in WebSphere Business Modeler and WebSphere Integration Developer that include generalized flows (previously called "Cyclic Flows") in which the navigation logic has been set using the visual tools and the behavior specified for incoming and outgoing links.
- Allows the definition of an exit condition on activities, which specifies the criteria identifying when an activity can be automatically skipped or when the process needs to come to a halt because the execution of an activity did not result in certain business criteria being met.
- Improves publish response time and messaging engine start-up time.

Extends the reach of process solutions:

- Delivers new policy-driven connectivity for the administrator to configure service mediations through policies
- Enhances Web Services standards support
- Enhances service mediation capabilities

Delivers enhancements designed to ease the effort of migrating from WebSphere Business Integration heritage server solutions:

- WebSphere Business Integration Server Foundation solutions: Improves integration developer productivity by enabling the import of entire WebSphere Studio Application Developer Integration Edition workspaces into WebSphere Integration Developer, and by aiding in the migration of service interfaces to custom Java code.
- WebSphere InterChange Server solutions: Improves time to value when migrating solutions by enabling the use of migrated maps with WebSphere V6 Adapters on WebSphere Process Server, generating native SCA bindings (MQ, JMS, HTTP, and EJB) for use with migrated maps, supporting running text-based heritage data handlers on WebSphere Process Server, and improving the runtime performance of migrated content.
- WebSphere Business Integration Server Express and WebSphere Business Integration Server Express Plus solutions: Supports the migration of WBI-SX artifacts to new value-add solutions assembled with WebSphere Integration Developer for deployment on WebSphere Process Server, providing a growth path to an enterprise BPM solution that enables significant value-add capabilities and platform support, as well as supporting virtually unlimited workloads.
- WebSphere MQ Workflow solutions: Enhances qualities of service with improved human task performance for WebSphere Process Server workflow solutions and new migration utility options that enable the generation of process models optimized for visual recognition and WebSphere Process Server runtime performance.

Platform alignment and currency

- Supports WebSphere Application Server V6.1.
- Adds support for IBM z/OS and z/OS.e 1.9, or later, including zFS, enabling WebSphere Process Server to run on the latest release of z/OS to leverage native z/OS facilities.

- Supports Windows® Vista as a runtime platform in non-production environments, enabling WebSphere Process Server to run on the latest version of Microsoft's server operating system in development and test scenarios.
- Complies 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 for z/OS derives its security functionality from the WebSphere Application Server for z/OS V6.1 runtime environment, and does not include additional security functionality. Therefore, a Common Criteria evaluation is not necessary because this product relies on the underlying runtime environment for security function and is neither Information Assurance (IA) nor IA-enabled.

FIPS 140-2: The cryptographic functionality of WebSphere Process Server for z/OS is managed by the WebSphere Application Server Network Deployment V6.1 runtime environment.

WebSphere Integration Developer

WebSphere Integration Developer delivers a flexible generation framework for business user applications that can be used for human interactions within a business process. This comprehensive support includes wizards for generation JavaServer Faces-based, portlet-based, and forms-based user interfaces.

WebSphere Integration Developer 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. It also provides a component architecture that simplifies component interfaces and plug-and-play solutions.

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 intuitive drag-and-drop technology to visually define the sequence and flow of business processes. The visual editors for Human Tasks, State Machines, Business Rules, Data mapping, and others minimize the need to write Java code.

It 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.

It 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.

WebSphere Integration Developer 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 lets you make incremental changes in the business model and apply them without loss of implementation. The integration with WebSphere Business Monitor lets you to create monitoring models that define events that can be monitored on a business dashboard.

WebSphere Integration Developer also:

- Provides comprehensive support for assembling composite applications based on standards.
- Allows you to develop executable processes based on WS-BPEL, including the IBM extensions.
- Delivers full support for specifying integrated fault and event handling.
- Includes compensation definition support that provides a logical "undo" capability for steps in process execution.
- Leverages industry-standard interfaces and schemas represented in Web Services Description Language (WSDL) and XML Schema Definition (XSD).
- 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, PeopleSoft, Oracle E-business, JD Edwards, and Siebel Business Applications for development use).

New features in WebSphere Integration Developer V6.2

Provides a powerful and flexible development environment with support for the latest technologies and standards:

- Supports new capabilities delivered in WebSphere Process Server and WebSphere ESB V6.2, including: policy-based ESB, enhanced process dynamicity, module versioning, and improved fault handling
- Supports the WebSphere Application Server Web Services Feature Pack and support for Soap 1.2, giving easier access to headers and better problem determination of Web services that use SOAP
- Supports Eclipse V3.4, which provides users with a single tooling experience when combined with tools such as IBM Rational Application Developer V7.5 through shell sharing

Accelerates iterative development between business analysts and IT developers with integration to WebSphere Business Modeler:

- Enhances the use of business calendars defined in WebSphere Business Modeler and leveraged at execution time
- Improves the ability to refactor Forms created in WebSphere Business Modeler
- Provides the ability for the IT developer to assist in testing and problem determination of solutions created and deployed by the WebSphere Business Modeler user

Simplifies the tooling experience and accelerates solution development:

- Simplifies the authoring experience with usability improvements to the assembly, BPEL, and message flow (MFC) editors
- Improves support for dealing with different message types and protocol specific headers, including CICS® and IMStm messages

Delivers enhanced mediation support:

- Improves efficiency with services gateway
- Enables Mediation Flows and XSLT transformations in Business Module
- Allows multiple mediation components in a module
- Enables reuse in the mediation programming model
- Enables the ability to map very large Business Objects

Delivers a tutorial-based WebSphere ESB sample program that shows the user how to create and deploy a WebSphere ESB solution.

WebSphere ESB for z/OS

WebSphere ESB for z/OS 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 for z/OS 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 based upon the backbone of WebSphere Platform Messaging, WebSphere ESB for z/OS is packaged both as part of WebSphere Process Server and as a stand-alone product. It is implemented as a J2EE application running on WebSphere Application Server for z/OS.

WebSphere ESB for z/OS:

- 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 for z/OS
- Extends easily to WebSphere Process Server for service orchestration and BPM

- Provides an integrated solution for both service mediation and service hosting

WebSphere ESB for z/OS is easy to use from both a tools and a runtime 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 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 saves time and development costs.

New features in WebSphere ESB for z/OS V6.2

Delivers new policy-driven connectivity:

- Increased flexibility to administratively configure service mediations through policies
- Full set of mediation capabilities manageable via policies
- Integration with WebSphere Service Registry and Repository for policy management and governance

Enhances Web Services standards support:

- Improved interoperability with support for WS-I Reliable Secure Profile, SOAP 1.2, WS-Reliable Addressing, and supporting standards
- Simplified administration of Qualities of Service through Web Services policy sets
- Simplified development through the provision of a new Web Services binding based on JAX-WS 2.0, JAXB 2.0, SAAJ 1.3, and StAX 1.0

Includes enhanced service mediation capabilities:

- Enhanced flexibility in service gateway scenarios
- Enhanced performance with parallel processing for splitting and aggregating patterns
- Streamlined integration to support WebSphere Process Server solutions

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 V6.2 provide the following Java Enterprise Edition (JEE) Connector Architecture (JCA) 1.5-compatible adapters and tools:

- WebSphere Adapter for IBM i V6.2 provides integration to applications on the IBM i platform.
- WebSphere Adapter for Email V6.2 enables the exchange of business objects with a variety of applications as e-mail message attachments.
- WebSphere Adapter for FTP V6.2 enables integration with applications using FTP to send and receive files to a remote FTP server.

- WebSphere Adapter for Flat Files V6.2 enables integration with applications, which provide a basic flat-file interface.
- WebSphere Adapter for JDBC V6.2 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 V6.2 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 V6.2 leverages the Siebel Java Data Bean Object API to enable bidirectional integration with Siebel Business Applications.
- WebSphere Adapter for Oracle E-Business Suite V6.2 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 V6.2 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 V6.2 provides bidirectional, real-time integration to PeopleSoft Enterprise. It interacts with PeopleSoft through the PeopleTools Component Interface Java API.
- WebSphere Adapter Toolkit V6.2 enables clients and 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 for download free 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 V6.2

- The new WebSphere Adapter for IBM i V6.2: Support for data queues and RPG program calls.
- WebSphere Adapter for Oracle E-Business Suite V6.2: Tooling experience and features customized for Oracle E-Business Suite, with improved tooling usability and performance compared to JDBC Adapter tooling.
- WebSphere Adapter for JD Edwards EnterpriseOne V6.2: Inbound support for Real Time Events
- WebSphere Adapter Toolkit V6.2: Updates to v6.2 Adapter Foundation Classes. Enables ISVs and service partners to gain the benefit of reusing enhancements from the underlying code base used in the prebuilt WebSphere Adapters V6.2
- WebSphere Adapter for FTP V6.2: Support for Secure File Transfer Protocol (SFTP)

The following new features apply to multiple adapters:

- J2C Fault Tooling (SAP, Flat Files, Oracle EBS, and JDBC adapters)
- Improved problem determination (all adapters)

Accessibility by people with disabilities

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

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

WebSphere Process Server for z/OS

WebSphere Process Server for z/OS delivers a single, integrated runtime with the SOA-based process automation on z/OS and the combined benefits of one of the industry's top application server and integration capabilities. It allows business flexibility on a highly scalable, reliable platform with z/OS class of service.

WebSphere Process Server for z/OS offers robust process automation, advanced human workflow, and business rules with rich integration capabilities all on a common, native SOA platform with full ESB connectivity. WebSphere Process Server and WebSphere ESB for z/OS extend and enrich your most mission-critical business applications and data, with new process automation and integration capabilities for an SOA infrastructure that runs on the same platform to provide the same z/OS class of service.

WebSphere Integration Developer

WebSphere Integration Developer is the user-friendly authoring solution 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 on any platform, including z/OS.

WebSphere Integration Developer offers role-based development experience that specifically targets the integration developer role on a single and integrated Eclipse platform. It can be expanded to other roles like business analyst by adding the WebSphere Business Modeler product or J2EE developer by adding the IBM Rational Application Developer product, which is the primary development tooling for J2EE and portal developers.

WebSphere ESB for z/OS

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. WebSphere products are designed to meet your requirements, from the creation of a single application to the implementation of an enterprise-wide SOA.

WebSphere ESB for z/OS delivers Web services connectivity, JMS messaging, and service-oriented integration on z/OS for fast implementation and deployment of an ESB that reduces the need to write code.

WebSphere Adapters

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.

Product identification number

Program PID number	Subscription and Support PID number
5655-R15	5655-R16
5655-N53	5655-P27

Program number

Program number	Program name
5655-R15	webSphere Enterprise Service Bus for z/OS V6.2
5655-N53	webSphere Process Server for z/OS V6.2

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=208-325>

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

The primary delivery for product documentation for WebSphere ESB for z/OS V6.2 can be found in the Information Center available on the Web at

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

The publication *IBM WebSphere Enterprise Service Bus for z/OS V6.2 Program Directory* (GI13-0532) is available with your order, and on the Web at

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

The publication *IBM WebSphere Enterprise Service Bus for z/OS V6.2 License Information* (LC23-4990) is available with your order, and on the Web at

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

The license ID is L-YWAG-7HG2V6.

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 packages (LK4T-2590, LK4T-2591, LK4T-2592, LK4T-2593, LK4T-2594, LK4T-2595, LK4T-2596, and LK4T-2598).

WebSphere Process Server

The primary delivery for product documentation for WebSphere Process Server for z/OS V6.2 can be found in the Information Center available on the Web at

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

The publication *IBM WebSphere Process Server for z/OS V6.2 Program Directory* (G111-4299) is available with your order, and on the Web at

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

The publication, *WebSphere Process Server for z/OS V6.2 License Information* (LC23-4990) is available with your order, and on the Web at

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

The license ID is L-YWAG-7HG2V6.

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 package (LK4T-1484, LK4T-1485, LK4T-1486, LK4T-1487, LK4T-1488, LK4T-1489, and LK4T-1490).

Technical information

Specified operating environment

Hardware requirements

Any hardware that supports z/OS and z/OS.e 1.8, or later

Software requirements

WebSphere Process Server and WebSphere ESB

- Operating systems (supported with a 31-bit WebSphere Application Server) - z/OS and z/OS.e 1.8, or later

Note: Supports zFS File System.

- Operating systems (supported with a 64-bit WebSphere Application Server) - z/OS and z/OS.e 1.8, or later

Note: Supports zFS File System.

- Application server
 - WebSphere Application Server for z/OS 6.1 with latest service level
 - WebSphere Extended Deployment 6.1, Fix Pack 1
- Java
 - IBM 31-bit SDK for z/OS, Java 2 Technology Edition, 5.0
 - IBM 64-bit SDK for z/OS, Java 2 Technology Edition, 5.0

Note: The WebSphere-supplied Java 2 software development kit (SDK) is required for both the runtime environment and remote Java clients.

- Databases

- Cloudscape® 10.1
- DB2 for z/OS V8

Note: Program Update Tape (PUT0702) is required.

When using Business Process Choreographer Observer against DB2 on z/OS (either native or as remote database), it is required that the z/OS Workload Manager (WLM) is configured to support interpreted Java routines. interpreted Java routines' for details.

- Transaction managers

- CICS Transaction Server 2.3 and 3.1
- IMS V9

- Java Database Connectivity (JDBC) drivers

- Derby JDBC Provider (XA)
- Derby Network Server using Derby Client Provider (XA)
- DB2 Universal JDBC Provider (XA) 2.8 (type 2)
- DB2 Universal JDBC Provider (XA) 2.8 (type 4)
- DB2 Universal JDBC Provider (XA) from DB2 z/OS (type 4)
- Application Connectivity to DB2 for z/OS Feature
- Toolbox (XA) for Java/JTOpen JDBC Driver 4.8 (type 4)
- Informix® JDBC (XA) Driver 3.00 JC3 (type 4)
- Informix JDBC (XA) Driver 3.10 JC1 (type 4)
- Oracle 9i JDBC (XA) Driver
- Oracle 10g JDBC (XA) Driver
- Oracle 11g JDBC (XA) Driver
- WebSphere embedded Connect JDBC (XA) 3.5 build 37 (type 4)
- DataDirect Connect JDBC (XA) 3.5 build 37 (type 4)
- Microsoft SQL Server JDBC Driver, version 1.2
- IMS JDBC Connector V9

- LDAP servers (required only to support optional functions)

- z/OS Security Server 1.8 or later
- z/OS.e Security Server 1.8 or later
- IBM Lotus Domino® Enterprise Server 6.5.4
- IBM Lotus Domino Enterprise Server 7.0

- Web servers

- IBM HTTP Server for z/OS
- IBM Lotus Domino Enterprise Server 6.5.4
- IBM Lotus Domino Enterprise Server 7.0

- Web browsers

There is no software option that runs on this operating system and platform combination.

- JMS Provider (required only to support optional functions)

- WebSphere MQ 6.0 for z/OS with PQ22728 and UK22808
- WebSphere MQ 7.0 for z/OS
- WebSphere Application Server default messaging provider

- Clients (required only to support optional functions)

There is no software option that runs on this operating system and platform combination.

- Security (required only to support optional functions)

There is no software option that runs on this operating system and platform combination.

- Resource Adapters (required only to support optional functions)

There is no software option that runs on this operating system and platform combination. See the introductory text above for information about software options available on other platforms.

- Business-to-business integration (required only to support optional functions)

IBM WebSphere Transformation Extender 8.2

- License use management (required only to support optional functions)

There is no software option that runs on this operating system and platform combination.

- Service Registries (required only to support optional functions)

There is no software option that runs on this operating system and platform combination.

- Tools and utilities

IBM WebSphere Application Server Feature Pack for WebServices 6.1.0.21

For latest details, visit

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

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

WebSphere Adapters

- Email Adapter V6.2

As for WebSphere Process Server and WebSphere ESB

- Flat Files Adapter V6.2

As for WebSphere Process Server and WebSphere ESB

- FTP Adapter V6.2

As for WebSphere Process Server and WebSphere ESB

- JDBC Adapter V6.2

As for WebSphere Process Server and WebSphere ESB

- IBM i Adapter V6.2

Not supported on z/OS

- JD Edwards Adapter V6.2

Not supported on z/OS

- Oracle E-Business Suite Adapter V6.2

Note: Not supported on z/OS

- PeopleSoft Adapter V6.2

– 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 V6.2

– z/OS 1.7

– z/OS.e 1.7

– 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 V6.2

Note: 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 for z/OS and WebSphere ESB for z/OS rely on security functionality from the WebSphere Application Server for z/OS V6.1 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 for z/OS and WebSphere ESB for z/OS is managed by the WebSphere Application Server for z/OS V6 runtime environment.

Extended entitlement

IBM plans to protect client investments and does not expect current clients to migrate immediately from currently entitled products to WebSphere Process Server for z/OS. 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 z/OS. 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 V6.2 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 V6.2) 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.

Packaging

The following information applies to both WebSphere Process Server for z/OS V6.2 and WebSphere ESB for z/OS V6.2.

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 V6.2 (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 (these are provided only as electronic downloads until January 16, 2009):

- Messaging Clients CD-ROMs (WebSphere ESB for z/OS only)
- WebSphere Process Server Clients DVDs (WebSphere Process Server for z/OS only)
- WebSphere Application Server Network Deployment Supplements V6.1 CD-ROMs
- WebSphere Application Server Toolkit V6.1.1 CD-ROMs
- Edge Components V6.1 CD-ROMs

- IBM Tivoli Access Manager V6.0 CD-ROMs
- IBM Rational Agent Controller V6.1.5 CD-ROM

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

Security, auditability, and control

WebSphere Process Server for z/OS V6.2 and WebSphere Enterprise Service Bus for z/OS V6.2 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

Charge metric

Program name	PID number	Charge metric
WebSphere Enterprise Service Bus for z/OS V6.2	5655-R15	Value Unit
WebSphere Process Server for z/OS V6.2	5655-N53	Value Unit

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

Program Number	Program Name	Value Unit Exhibit
5655-R15	WebSphere Enterprise Service Bus for z/OS V6.2	VUE007
5655-N53	WebSphere Process Server for z/OS V6.2	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.

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>

Basic license

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

WebSphere Enterprise Service Bus for z/OS V6.2 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 V6.2
Program PID 5655-R15

Entitlement identifier	Description	License option/Pricing metric
S012HBD	WebSphere ESB for z/OS V6.2	Basic OTC, Per MSU-day TUC

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

WebSphere Process Server for z/OS V6.2 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 V6.2
Program PID 5655-N53

Entitlement identifier	Description	License option/Pricing metric
S0123H6	webSphere Process Server for z/OS V6.2	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 V6.2
Program PID 5655-R15

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
S012HBD	webSphere ESB for z/OS V6.2	Basic OTC, Value Units
S012HBD	webSphere ESB for z/OS V6.2 Trade-up from webSphere Application Server for z/OS	Basic OTC, Value Units

Orderable supply ID	Language	Distribution medium
S012HBC	English Japanese	3480 tape

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 ALC, 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 V6.2
Program PID 5655-N53

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
S0123H6	WebSphere Process Server for z/OS V6.2	Basic OTC, Value Units
S0123H6	WebSphere Process Server for z/OS V6.2 -Trade-up from WebSphere Application Server for z/OS (5655-N01)	Basic OTC, Value Units
S0123H6	WebSphere Process Server for z/OS V6.2 -Trade-up from WebSphere ESB for z/OS (5655-R15)	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S0157BX	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 WAS 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 ALC, 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

Subscription and Support

To receive voice technical support via telephone 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.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

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

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390® and zSeries® license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

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 3592*
- ServerPacs - 3480, 3480 Compressed, 3490E, 3590, and 3592*
- SystemPacs - 3480, 3480 Compressed, 3490E, 3590, and 3592*

*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.

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 Software Subscription and Support (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. 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

L-YWAG-7HG2V6

The programs' license information 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 support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

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

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

Yes

Educational allowance available

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

Sub-capacity terms and conditions

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-N53	WebSphere Process Server for z/OS V6.2	Execution-based
5655-R15	WebSphere ESB for z/OS V6.2	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 (RFA29235), 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

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 CoD

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.

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On/Off Capacity on Demand

WebSphere Enterprise Service Bus for z/OS V6.2 - OOCoD

WebSphere Enterprise Service Bus for z/OS V6.2 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 V6.2
Program PID 5655-R15

Entitlement Identifier	Description	License options/Pricing metrics
S012HBD	WebSphere ESB for z/OS V6.2	Basic OTC, Per MSU-day TUC

WebSphere Process Server for z/OS V6.2 - OOCoD

WebSphere Process Server for z/OS V6.2 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 V6.2
Program PID 5655-N53

Entitlement Identifier	Description	License options/Pricing metrics
S0123H6	WebSphere Process Server for z/OS V6.2	Basic OTC, Per MSU-day TUC

WebSphere Enterprise Service Bus for z/OS V6.2 - Value unit

Program name WebSphere Enterprise Service Bus for z/OS V6.2
Program PID 5655-R15

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
S012HBD	WebSphere ESB for z/OS V6.2	Basic OTC, Value Units
S012HBD	WebSphere ESB for z/OS V6.2 Trade-up from WebSphere Application Server for z/OS	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 ALC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration

WebSphere Process Server for z/OS V6.2 - Value unit

Program Name WebSphere Process Server for z/OS V6.2
Program PID 5655-N53

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
S0123H6	WebSphere Process Server for z/OS V6.2	Basic OTC, Value Units
S0123H6	WebSphere Process Server for z/OS V6.2 - Trade-up from WebSphere Application Server for z/OS (5655-N01)	Basic OTC, Value Units
S0123H6	WebSphere Process Server for z/OS - Trade-up from WebSphere ESB for z/OS V6.2 (5655-R15)	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 ALC, 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.

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- 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.

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

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Corrections

(Corrected on October 15, 2008)

The At a glance and Description sections are revised.

(Corrected on December 17, 2008)

The Planned availability, At a glance, Description, and Packaging sections are revised.