IBM WebSphere Enterprise Service Bus V7.5 and IBM WebSphere Adapters V7.5 increase business agility with dynamic services

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At a glance

WebSphere® Enterprise Service Bus (WebSphere ESB) V7.5 delivers innovations to build, modify, and customize integration solutions, while enabling service-oriented architecture (SOA) users to a common business space UI environment for WebSphere ESB and WebSphere Service Registry and Repository to configure, monitor and control complete SOA solutions. It is supported by IBM® Integration Designer V7.5 as the best-in-class declarative development and test tooling for integration and use of WebSphere V7.5 adapters.

New in WebSphere ESB for Multiplatform V7.5 and WebSphere Enterprise Service Bus for z/OS®, V7.5:

- Textual mediation flow format, to enable developers to create, modify and customize mediations using XML with tool of choice
- Common Business Space User Interface for SOA users of WebSphere ESB and WebSphere Service Registry and Repository, to help configure mediation policies, monitor system health and traffic, register services, service consumers and providers, policies and SLA, and visualize the business impact of your SOA efforts.
- Enhanced dynamic endpoint and service level agreement (SLA) lookup from WebSphere Service Registry and Repository
- Support of powerful XSLT2 mapping capabilities
- Enhanced performance for handling large data objects
- Improved how-to-usability with a new consolidated Development Guide and as well as enhancements handling service I/O parameters and correlation
- Enhanced serviceability exploiting FFDC (First Failure Data Capture) and XCT (Cross Component Trace)
- Seamless migration from previous releases of WebSphere ESB V6 and V7
- New support for AIX® 7.1, Red Hat Enterprise Linux® 6, Microsoft® SQL Server 2008 R2, DB2® z/OS V10, and z/OS 1.12

Additionally, new V7.5 releases of IBM Integration Designer (previously known as WebSphere Integration Developer) and WebSphere Adapters deliver expanded integration solutions and tools for WebSphere ESB customers.

For ordering, contact Your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255).
Reference: YE001
Overview

WebSphere ESB provides flexible service mediation and hosting for integrating applications and data as services, designed to enable the development of an SOA. Built on top of WebSphere Application Server for an integrated SOA platform, WebSphere ESB helps you create services from existing assets and connect service providers with service consumers to create new business systems.

WebSphere ESB can connect virtually any business application, and supports common connectivity patterns such as simple proxy, service gateway, service translation and service selection as well as mediation policies for dynamic SOA solutions. It integrates well with WebSphere Service Registry and Repository, supporting a common business space environment for web-based widgets to SOA users. WebSphere ESB brings consistency to point-to-point connectivity diversity, reducing IT complexity while improving business agility. You can focus on your core business, rather than on your IT.

New in this release, WebSphere ESB V7.5 enables you to grow your SOA adoption with a scriptable and configurable enterprise service bus (ESB) that is consistent with WebSphere Service Registry and Repository V7.5, WebSphere Adapters V7.5, IBM Integration Designer V7.5 and IBM Business Process Manager (IBM BPM) V7.5. SOA users can now share widgets from WebSphere ESB V7.5 and WebSphere Service Registry and Repository V7.5 in the same Business Space V7.5 environment. For WebSphere ESB, they can configure mediation policies, for example, for SLA endpoint lookup, and monitor service traffic and system health from a web-based UI that is consistent with the registry and repository for finding services offered by service providers and consumers for reuse.

In addition, WebSphere ESB V7.5 is now scriptable with a newly exposed textual mediation flow format that can be modified by any XML editor or custom application, and is generated by its declarative IBM Integration Designer V7.5 tooling. For data transformation, WebSphere ESB V7.5 leverages XSLT2 with additional powerful transformation primitives in its IBM Integration Designer V7.5 tooling together with a broad range of native connectivity bindings, Adapter Toolkit V7.5 and enhanced Adapters V7.5. The new WebSphere ESB Development Guide provides consolidated guidance for how to best design your integration solutions. Finally, WebSphere ESB V7.5 delivers enhancements in support for included DB2, overall serviceability, and performance for handling large data.

In conjunction with WebSphere ESB V7.5, new releases of IBM Integration Designer and WebSphere Adapters deliver enhanced integration solutions:

- IBM Integration Designer V7.5 provides the user-friendly visual drag-end-drop programming and test environment for WebSphere ESB, WebSphere Adapters and Adapter Toolkit, DataPower®, and BPM Advanced. Previously known as WebSphere Integration Developer, it is the Eclipse-based developer tool that simplifies integration with supplied visual editors and built-in test support. IBM Integration Designer V7.5 delivers tools for more powerful transformations, DB2 Express®, and integration modules for multiple target runtimes.
- WebSphere Adapters V7.5 can accelerate business integration projects with a comprehensive set of capabilities to service-enable your assets, including packaged, custom, and legacy applications, technology protocols, and databases. WebSphere Adapter Toolkit enables clients and IBM Business Partners to develop custom adapters to meet unique business requirements. All these adapter capabilities are provided to WebSphere ESB clients as part of its IBM Integration Designer V7.5 tooling. WebSphere Adapters V7.5 delivers expanded and enhanced adapter support, HA Clustering, and scheduling across adapters.
**Key prerequisites**

Any of the following:

- IBM POWER systems
- PA-RISC systems
- IA64 systems
- x86 systems
- x86-64 systems
- IBM System z®
- SPARC systems

Any of the previously listed systems with:

- IBM AIX
- IBM z/OS
- Red Hat Enterprise Linux
- Novell SUSE Linux Enterprise Server
- Solaris
- HP-UX
- Microsoft Windows®

**Planned availability date**

- WebSphere ESB for Multiplatform V7.5
  - June 3, 2011 -- Electronic delivery
  - June 17, 2011 -- Physical delivery
- WebSphere ESB for z/OS, V7.5 -- Physical delivery: June 17, 2011
- WebSphere Adapters V7.5
  - June 3, 2011 -- Electronic delivery with IBM Integration Designer V7.5
  - June 17, 2011 -- Physical delivery with IBM Integration Designer V7.5

**Description**

WebSphere ESB provides flexible service mediation and hosting for integrating applications and data as services, designed to enable the development of an SOA. Built on top of WebSphere Application Server for an integrated SOA platform, WebSphere ESB helps you create services from existing assets and connect service providers with service consumers to create new business systems.

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WebSphere ESB is ideal if you have other solutions on WebSphere Application Server, WebSphere Portal, WebSphere Commerce, or the Business Process Manager (BPM) platform. You may achieve efficiencies in skills, cost, and time-to-value across middleware products by adding WebSphere ESB to your Java-based IT environment,
especially in the areas of common cell administration, operation, tuning, clustering, high-availability configurations.

Built as a service bus that extends the service integration technologies of WebSphere Application Server, WebSphere ESB is packaged both as part of IBM BPM and as a stand-alone product. It allows you to run mediation modules, which are Java™ EE applications.

WebSphere ESB:

- Brings consistency to point-to-point connectivity
- Provides smart connectivity on internet-standard application infrastructure, to connect any application or data
- Supports a broad range of native bindings and adapters for service-oriented integration, incl. web services, MQ and JMS messaging, HTTP, EJB, databases, files, file transfer, email, Lotus® Domino®, System i® (RPG programs), CICS®, IMS™, SAP, Oracle, Siebel, PeopleSoft, and JDEdwards
- Integrates seamlessly with the industry-leading WebSphere software platform for streamlined IT operations
- Extends easily to IBM BPM Advanced for service orchestration and BPM
- Tightly integrates with WebSphere Service Registry and Repository for SOA solutions
- Leverages declarative IBM Integration Designer for visual programming and testing
- 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. IBM Integration Designer, 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.

New features in WebSphere ESB V7.5

- Enhanced developer productivity
  - Simplified mediation flow format that eases team-based development and increases developer choice
  - Consistent and simplified failure handling through operation level error flows
  - Development Guide that provides cohesive explanation of programming model and guides choice of product features
  - Enhanced service invocation mediation primitive that simplifies message augmentation scenarios
  - Improved catch-all fault processing for mediation flows
- Enhanced integration with WebSphere Service Registry and Repository
  - Endpoint resolution based on an SLA established in WebSphere Service Registry and Repository with the Governance Enablement Profile
  - Policy resolution support extended to cover all SCA binding types and manual endpoints configured in WebSphere Service Registry and Repository
  - Common Business Space user interface for WebSphere ESB and WebSphere Service Registry and Repository
- Enhanced transformation standards support: More powerful transformations through support for XSLT 2.0
- Enhanced performance
  - Increased responsiveness of initial invocations through pre-compilation of XSL transformations and XPath queries
  - Improved handling of large objects provided by the business object lazy parsing mode
- Enhanced serviceability: Improved mediation flow diagnostics captured on first occurrence of failures
• Platform support
  – New operation system support for AIX 7.1 and Red Hat Enterprise Linux 6 (on System z and System x®)
  – New database support for Microsoft SQL Server 2008 R2, DB2 z/OS V10

New capabilities in WebSphere Adapters V7.5

• Extended Oracle EBS Adapter support to XML Gateway and Oracle AQ interfaces, in addition to RDBMS access
• Enhanced SAP Adapter for BAPI calls, RFC discovery, IDOC parsed control records structures, ITCAM enablement, and tooling wizard
• Enhanced Siebel Adapter for codepage properties
• Improved ECM Adapter with folder and inbound support
• Extended Active-active HA clustering to JDBC, Flat File and FTP Adapters
• Enhanced JDBC Adapter for paging, native XML data types, fault handling, and performance by updating multiple objects now with one call
• New calendar-based scheduling across adapters

New in IBM Integration Designer V7.5 (for users of WebSphere ESB and Adapters)

• Follow-on to WebSphere Integration Developer V7.0
• Generates the textual mediation flow format for WebSphere ESB V7.5
• Provides more powerful transformations through support for XSLT 2.0
• Delivers WebSphere Adapters V7.5 and Adapter Toolkit V7.5
• Installs DB2 Express as the default database for unit test
• At product install, allows you to select WebSphere ESB as the target environment and only show functions that are possible with that target runtime.
• Supports the development of integration modules for multiple target runtimes, including WebSphere ESB V7.5, IBM BPM Advanced V7.5, and DataPower.

For detailed descriptions of IBM Integration Designer V7.5, refer to Software Announcement 211-092, dated April 5, 2011.

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 website at


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 website 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.
- IBM BPM V7.5 is a comprehensive and consumable business process management platform that provides total visibility and management of your business processes. It provides a single BPM platform with multiple configurations (Express, Standard, and Advanced) to match a company’s desired entry point to BPM. It includes tooling and run-time for process design, execution, monitoring, and optimization, and is specifically designed to make it easy for process owners and business users to engage directly in the improvement of their business processes.
- IBM Integration Designer is the declarative visual drag-drop development and test tool for WebSphere ESB as well as WebSphere Adapters, WebSphere DataPower and process integration in IBM BPM Advanced. It delivers a visual development environment for modeling, testing, configuring, and deploying integration solutions.

IBM Integration Designer simplifies the development of integration solutions with rich features, including WebSphere Adapters, and a broad set of native connectivity bindings, to render existing IT assets as service components, thus encouraging reuse and efficiency. It allows you to assemble complex business
solutions -- whether processes, mediations, adapters, or code components -- in a user-friendly authoring environment. The supplied visual editors minimize the need to write code. IBM Integration Designer integrates with Rational® Application Developer through shell sharing, provides a single developer tooling experience for integration and application developers. using WebSphere ESB and WebSphere Application Server, for example.

- WebSphere Adapters help service-enable packaged applications and technology standards for service-oriented integration with the WebSphere software platform. They can support any Java application as well as ESB implementations, BPM solutions, and industry frameworks.
- 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 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 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

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### Product identification number

**WebSphere ESB for z/OS, V7.5**

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WebSphere ESB, V7.5

Program PID number
5724-I82

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).


Education support

IBM delivers a comprehensive portfolio of education services to help you 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. IBM draws 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 website and search on the product name

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

Offering Information

Product information is available via the Offering Information website

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

Publications

WebSphere ESB

This product includes a printed Quick Start Guide and License Information booklet. The license ID is L-SBRY-8C7DZT.

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 program. It also contains terms that supersede license terms which may be included with components of the program.
For WebSphere ESB documentation, visit


**WebSphere ESB for z/OS**

The primary delivery for product documentation for WebSphere ESB for z/OS, V7.5 can be found in the Information Center available on the web at


The publication *WebSphere Enterprise Service Bus for z/OS, V7.5 Program Directory* (GI13-0571-00) is available with your order media, and on the web at


The publication *WebSphere Enterprise Service Bus for z/OS, V7.5 License Information* (LC23-5077-01) is available with your order, and on the web at

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

The license ID is L-SBRY-8C7EWN.

**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 Adapters V7.5**

There is no change to the information for WebSphere Adapters V7. Refer to Software Announcement 209-309, dated October 2, 2009.

**The IBM Publications Center**

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

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

The following publications are available on the IBM Publications Center:

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Technical information

Specified operating environment

Hardware requirements

WebSphere ESB V7.5 and WebSphere Adapters V7.5

- Minimum 1 GB physical memory; 2 GB recommended
- DVD/CD-ROM drive
- One of the following:
  - AIX on IBM POWER systems: Any system from the IBM POWER family of processors
  - HP-UX on IA64 systems: Intel® Itanium® 2 processor
  - HP-UX on PA-RISC systems: PA-RISC processor
  - 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)
  - Linux on x86-64 systems: AMD Opteron or Intel EM64T (64-bit kernel support)
  - Linux on POWER systems: Any system from the IBM POWER family of processors
  - Linux on IBM System z: IBM System z processor
  - Solaris on SPARC systems: Sun Solaris operating environment compatible SPARC at 440MHz or faster
  - Solaris on x86-64 systems: AMD Opteron or Intel EM64T (64-bit kernel support)
  - Microsoft Windows on x86 systems: Intel Pentium at 500MHz or faster; Intel EM64T or AMD Opteron (32-bit kernel support only)
  - Microsoft Windows on x86-64 systems: AMD Opteron or Intel EM64T (64-bit kernel support)

WebSphere ESB for z/OS, V7.5

- IBM System z processor, including z10™, zEnterprise
- IBM z/OS V1.10, V1.11, or V1.12

Software requirements

WebSphere ESB V7.5 and WebSphere Adapters V7.5

- AIX on IBM POWER systems (32- and 64-bit): AIX 5L™ V5.3, AIX V6.1, and AIX V7.1
- HP-UX on IA64 or PA-RISC systems (64- and 32-bit respectively)
  - HP-UX 11iv2 (11.23) with Standard Patch Bundle, dated December 2007
  - HP-UX 11iv3 with Standard Patch Bundle, dated September 2007
- Linux on x86 systems (32-bit)
  - Red Hat Enterprise Linux (RHEL) 4.0 (Update 6), AS/ES/WS
  - Red Hat Enterprise Linux (RHEL) 5.0 (or Update 1) Advanced Platform, Server, Desktop
  - Red Hat Enterprise Linux (RHEL) 6.0 AS/ES/WS
  
  **Note:** Red Hat Linux WS is only for application design, development, and testing. It is not supported for production.
  - Novell SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
  - Novell SUSE Linux Enterprise Server (SLES) 11.0
- Linux on x86-64 systems (32- and 64-bit)
- Red Hat Enterprise Linux (RHEL) 4.0 (Update 6) AS/ES
- Red Hat Enterprise Linux (RHEL) 5.0 (or Update 1)
- Red Hat Enterprise Linux (RHEL) 6.0 AS/ES
- Novell SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
- Novell SUSE Linux Enterprise Server (SLES) 11.0

Linux on POWER systems (32- and 64-bit)
- Red Hat Enterprise Linux (RHEL) 4.0 (Update 6) AS
- Red Hat Enterprise Linux (RHEL) 5.0 (or Update 4) AS
- SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
- SUSE Linux Enterprise Server (SLES) 11.0

Linux on System z systems: Operating systems (31- and 64-bit)
- Red Hat Enterprise Linux (RHEL) 4.0 (Update 6)
- Red Hat Enterprise Linux (RHEL) 5.0 (or Update 1) Advanced Platform
- Red Hat Enterprise Linux (RHEL) 6.0 AS
- Novell SUSE Linux Enterprise Server (SLES) 10.0 Service Pack 1
- Novell SUSE Linux Enterprise Server (SLES) 11.0

Solaris on SPARC systems (32- and 64-bit): Sun Solaris 10 with the latest Patch Cluster, dated January 7, 2008
Solaris on x86-64 systems (64-bit): Sun Solaris 10 x86-64 with the latest Patch Cluster, dated January 7, 2008

Windows on x86 systems (32-bit)

Windows on x86-64 systems (64-bit)
- Windows Server 2003 R2 Datacenter/Enterprise/Standard x64 Edition Service Pack 2

Required on any of the above:
- Webphere Application Server Network Deployment V7 (included)
- Supported databases:
  - DB2 Enterprise/Workgroup Server Edition V9.5, minimum FixPack 1,
  - DB2 Enterprise/Workgroup/Express Server Edition V9.7, minimum FixPack 4
  - DB2 pureScale Feature for Enterprise Server Edition 9.8, minimum FixPack 3
  - DB2 for z/OS, V9.1
  - DB2 for z/OS, V10
  - Oracle 11g Enterprise/Standard Edition Release 1 - 11.1.0.6
  - Oracle 11g Enterprise/Standard Edition Release 2, also supporting Oracle Real Application Cluster (RAC).

For optional functions
- Java application development: IBM Java SDK V6.0 plus Service Refresh 7
- WebSphere Service Registry and Repository V6.2, V6.3, V7.0, V7.5
• Java Database Connectivity (JDBC) Drivers
  – DB2 Driver for JDBC and SQLJ (type 2/4) V3.4.65
  – DB2 Universal JDBC Provider (type 2/4) V2.10.72
  – Data Direct Connect for JDBC V4.0 (type 4)
  – Application Connectivity to DB2 for z/OS Feature
  – Data Server Driver for JDBC and SQLJ (type 3) V3.51
  – Data Server for JDBC and SQLJ (type 4) V4.1
  – IBM Toolbox for Java/JTOpen JDBC Driver V6.0 (type 4)
  – IMS JDBC Connector 9
  – IMS JDBC Connector 10
  – Informix® JDBC Driver V3.00 JC3 (type 4)
  – Informix JDBC Driver V3.10 JC1 (type 4)
  – Informix JDBC Driver V3.50.JC1
  – Microsoft SQL Server 2005 JDBC Driver 1.2
  – Microsoft SQL Server JDBC Driver 2.0
  – Microsoft SQL Server JDBC Driver 3.0
  – Oracle JDBC Driver 11g 11.1.0.6
  – Oracle JDBC Driver 11g 11.2.0.1

• Security
  – WebSphere Application Server Network Deployment user registry (included)
  – LDAP v3 (rfc 2251) compliant Directory servers, such as
    -- IBM Lotus Domino Enterprise Server V7.0.2, V8.0
    -- Microsoft Windows Active Directory 2003, 2008
    -- Novell eDirectory 8.7.3, 8.8.1
    -- Sun Java Directory Server 6.0, 6.1
    -- IBM z/OS Security Server, as available for z/OS operating system versions supported
  – Tivoli Access Manager for e-Business V6.0, V6.1

• JMS providers
  – WebSphere Application Server Network Deployment V7 default messaging provider (included), or equivalent
  – WebSphere MQ V6.0.2.5, MQ V7.0
  – WebSphere MQ for z/OS, V6.0 and V7.0

• Mainframe Transaction Connectivity
  – CICS Resource Adapter (included) for CICS Transaction Gateway V7.0, V8.0
  – IBM IMS TM Resource Adapter V9.1.0.2, V10

• Transaction Managers
  – CICS Transaction Server for z/OS, V2.3, V3.1, and V3.2
  – IMS V9 and V10

• License use management (required only to support optional function): Tivoli License Compliance Manager V2.2

WebSphere ESB for z/OS

• Operating systems (supported with a 31- or 64-bit WebSphere Application Server): z/OS V1.10, V1.11 or V1.12

• Required on any of the above:
  – Application server: WebSphere Application Server for z/OS, V7
  – Database: DB2 for z/OS, V9.1 or V10
For optional functions

- **Java**: IBM Java SDK V6.0 Service Refresh 7
- **Java Database Connectivity (JDBC) Drivers**
  - DB2 Driver for JDBC and SQLJ (type 2/4) V3.4.65
  - DB2 Universal JDBC Provider (type 2/4) V2.10.72
  - Data Direct Connect for JDBC V4.0 (type 4)
  - Application Connectivity to DB2 for z/OS Feature
  - Data Server Driver for JDBC and SQLJ (type 3) V3.51
  - Data Server for JDBC and SQLJ (type 4) V4.1
  - 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 V3.50JC1
  - Oracle JDBC Driver 11g 11.1.0.6
  - Oracle JDBC Driver 11g 11.2.0.1
  - IMS JDBC Connector 9
  - IMS JDBC Connector 10
  - Microsoft SQL Server 2005 JDBC Driver 1.2
  - Microsoft SQL Server JDBC Driver 2.0
  - Microsoft SQL Server JDBC Driver 3.0
- **Security**
  - LDAP v3 (rfc 2251) compliant Directory servers, such as
    - IBM Lotus Domino Enterprise Server V7.0.2, V8.0
    - Novell eDirectory 8.7.3, 8.8.1
    - Sun Java Directory Server 6.0, 6.1
    - IBM z/OS Security Server as available for z/OS operating system versions supported
- **JMS provider** (required only to support optional functions)
  - WebSphere Application Server Network Deployment V7 default messaging provider (included), or equivalent
  - WebSphere MQ V6.0, MQ V7.0
  - WebSphere MQ for z/OS, V6.0 and V7.0
- **Mainframe Transaction Connectivity**
  - IBM CICS Resource Adapter (included) for CICS Transaction Gateway V6.0, V7.0
  - IBM IMS TM Resource Adapter V9.1.0.2, V10
- **Transaction Managers**
  - CICS Transaction Server for z/OS, V2.3, V3.1, and V3.2
  - IMS V9 and V10
- **License use management**: Tivoli License Compliance Manager V2.2

For latest details, visit

WebSphere Adapters V7.5 can be deployed on WebSphere ESB V7.5, and have the following application-specific prerequisites:

- Any SAP system based on the ABAP application server (3.1H or higher)
  - Oracle E-Business Suite 11.5.X, 12, and 12.1
  - Siebel Business Applications - 7.0.5, 7.5.x, 7.7.x, 7.8.x, 8.0, 8.1, or 8.1.1
  - PeopleSoft Tools 8.22, 8.40 through 8.49, 8.50 and 8.5
  - For further details, refer to http://www.ibm.com/support/docview.wss?rs=695&uid=swg21406906
- JD Edwards - EnterpriseOne Tools 8.97 or 8.98 (This is compatible with any version of JD Edwards EnterpriseOne supported by EnterpriseOne Tools)
- For application development and testing only: JD Edwards EnterpriseOne Tools 8.9 SP1, 8.9 SP2, 8.93, 8.94, 8.95, and 8.96

For latest details, visit http://www.ibm.com/software/integration/wsesb/sysreqs

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.

**Companion products**

The following products could be purchased with this product:

- WebSphere Adapters - Helps customers integrate applications, technologies, and partner systems within and outside the enterprise. This extended range of adapters is integral to a scalable integration infrastructure for the On Demand Business.
- IBM Integration Designer is the declarative visual drag-drop developer tool for WebSphere ESB as well as Adapters, DataPower and supports integration in BPM Advanced.
- IBM Business Process Manager (IBM BPM) V7.5 is a comprehensive and consumable business process management platform that provides total visibility and management of your business processes. It includes tooling and run-time for process design, execution, monitoring, and optimization, and is specifically designed to make it easy for process owners and business users to engage directly in the improvement of their business processes. It provides a single BPM platform with multiple configurations to match a company’s desired entry point to BPM.
- WebSphere Business Events - An offering designed specifically for managing business events flowing across systems and people, with the specific goal of providing timely insight and enabling response.
- IBM Business Monitor - Helps customers get real-time visibility of business processes and actively manage them.
- WebSphere MQ - Provides standards-based, reliable, and secure connectivity between applications and systems, giving access to more than 80 different platform configurations.
- WebSphere Message Broker - Running on top of WebSphere MQ, helps customers extend their connectivity between applications with high-performance transformation and routing by integrating a wide range of applications and various data formats.
- WebSphere DataPower SOA Appliances - 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 XD - Seamlessly integrates into a WebSphere platform installation, easily accessible using the same administration console as WebSphere Application Server, WebSphere ESB, and WebSphere Process Server.
• WebSphere ILOG® JRules is a business rule management system that enables organizations to define, deploy, monitor, and maintain the variety and complexity of decision logic that is used by operational systems.
• Rational Application Developer offers a rich set of role-based tools to enable business-driven development.

Limitations
For additional information, refer to Usage restriction in the Terms and conditions section of this announcement, or to the license information document that is available on the IBM Software License Agreement website


Planning information

Globalization
WebSphere ESB for z/OS provides basic enablement support for all locales. WebSphere ESB for z/OS provides translations for Japanese.

Note: WebSphere ESB bundled prerequisite 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
• Romanian

Common Criteria evaluation
WebSphere ESB leverages 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 ESB is managed by the included WebSphere Application Server V7.0 runtime environment.

Installability
Note: For customers moving from WebSphere ESB V7.0: The following databases are no longer supported with WebSphere ESB V7.5 as the system database, for example, for storage and management of information generated by the product.
These databases are still supported for storage of application data through the JDBC interface.

- DB2 for i V5R4
- DB2 for i V6R1
- IBM Informix Dynamic Server V10.00.xC6
- IBM Informix Dynamic Server V11.10.xC1
- IBM Informix Dynamic Server V11.50.xC1

**Direct customer support**

**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 ESB for z/OS, V7.5.

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

http://www.ibm.com/support

**Packaging**

**WebSphere ESB V7.5:**

On distributed platforms, WebSphere ESB is a Passport Advantage® offerings. The offering is distributed via electronic download. WebSphere ESB has 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
- Hardcopy Quick Start Guide
- Quick Start CD-ROM
- WebSphere ESB V7.5 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
- IBM DB2 Restricted Enterprise Server Edition V9.7 CD and DVDs
- Rational Agent Controller V8 CD-ROM
• Rational Application Developer Assembly and Deployment for WebSphere V7.5 CDs
• Tivoli Directory Server V6.3 DVDs
• Tivoli Access Manager for e-business V6.1 CD-ROMs
• Tivoli Composite Application Manager for WebSphere Application Server V7.0 CD

The following information applies to WebSphere ESB for z/OS, V7.5.

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 the 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 Application Server Network Deployment Supplements V7.0 CD-ROMs
• Edge Components V7.0 CD-ROMs
• Tivoli Access Manager V6.1 CD-ROMs
• Rational Agent Controller V8.0 CD-ROM
• Rational Application Developer V7.5 CD-ROM
• Support Assistant Workbench V4.0.2 CD-ROM
• 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 Adapters V7.5**

WebSphere Adapters V7.5 are part of IBM Integration Designer; there is no separate media. Refer to Software Announcement 211-092, dated April 5, 2011.

**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 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

<table>
<thead>
<tr>
<th>Product Identifier (PID)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-W09</td>
<td>WebSphere Enterprise Service Bus for z/OS</td>
</tr>
<tr>
<td>5724-I82</td>
<td>WebSphere Enterprise Service Bus</td>
</tr>
<tr>
<td>5724-N41</td>
<td>WebSphere Adapter for JD Edwards EnterpriseOne</td>
</tr>
<tr>
<td>5724-N40</td>
<td>WebSphere Adapter for Oracle E-Business Suite</td>
</tr>
<tr>
<td>5724-L81</td>
<td>WebSphere Adapter for PeopleSoft Enterprise</td>
</tr>
<tr>
<td>5724-L79</td>
<td>WebSphere Adapter for SAP Software</td>
</tr>
<tr>
<td>5724-L80</td>
<td>WebSphere Adapter for Siebel Business Applications</td>
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</table>

Charge metric

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID number</th>
<th>Charge metric</th>
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<tbody>
<tr>
<td>WebSphere Enterprise Service Bus V7.5</td>
<td>5724-I82</td>
<td>Processor Value Unit</td>
</tr>
<tr>
<td>WebSphere Enterprise Service Bus for z/OS, V7.5</td>
<td>5655-W09</td>
<td>Value Unit</td>
</tr>
<tr>
<td>WebSphere Adapter for JD Edwards EnterpriseOne</td>
<td>5724-N41</td>
<td>Application Instance</td>
</tr>
<tr>
<td>WebSphere Adapter for JD Edwards EnterpriseOne</td>
<td>5724-N41</td>
<td>Establishment</td>
</tr>
<tr>
<td>WebSphere Adapter for Oracle E-Business Suite</td>
<td>5724-N40</td>
<td>Establishment</td>
</tr>
<tr>
<td>WebSphere Adapter for Oracle E-Business Suite</td>
<td>5724-N40</td>
<td>Application Instance</td>
</tr>
<tr>
<td>WebSphere Adapter for PeopleSoft Enterprise</td>
<td>5724-L81</td>
<td>Establishment</td>
</tr>
<tr>
<td>WebSphere Adapter for PeopleSoft Enterprise</td>
<td>5724-L81</td>
<td>Application Instance</td>
</tr>
</tbody>
</table>
### Processor Value Unit

Processor Value Unit (PVU) is a unit of measure by which the program can be licensed. The number of processors made available to the program and PVU entitlements required is based on the processor technology (defined within the PVU Table by Processor Value, Brand, Type and Model Number at


IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores.

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


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

### Notes

Some programs may require licenses for the program AND what is being managed. In that case, the following applies: In addition to the entitlements required for the program directly, Licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

Some programs may be licensed on a managed basis ONLY. In that case, the following applies: Instead of the entitlements required for the program directly, Licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies: Rather than obtaining entitlements for the activated processor cores available to the program, Licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.
Express and Workgroup programs may be licensed with maximum use terms. In that case, the following applies: The maximum authorized use terms and conditions for PVU licensed IBM Express and Middleware programs can be found in the IBM Express and Middleware Licensing Guide.

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

<table>
<thead>
<tr>
<th>Program Number</th>
<th>Program Name</th>
<th>Value Unit Exhibit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-W09</td>
<td>WebSphere Enterprise Service Bus for z/OS V7.5</td>
<td>VUE007</td>
</tr>
</tbody>
</table>

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

**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 website 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 following existing trade up part numbers.

<table>
<thead>
<tr>
<th>Precursor product</th>
<th>Trade-up product</th>
<th>Trade-up part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebSphere ESB Qualified</td>
<td>WS ESB Value Unit</td>
<td>D58AHLL</td>
</tr>
<tr>
<td>WebSphere Application</td>
<td>WA ND Value Unit</td>
<td>D58AGLL</td>
</tr>
<tr>
<td>WebSphere ESB Qualified</td>
<td>WS ESB Linux z Value Unit for Qualified</td>
<td>D58ANLL</td>
</tr>
<tr>
<td>WebSphere Application</td>
<td>WebSphere ESB Linux z</td>
<td>D58AMLL</td>
</tr>
</tbody>
</table>

Consult your IBM representative if you have any questions.
WebSphere ESB and WebSphere Adapters

There is no change to the license Ordering Information for WebSphere ESB V7 and WebSphere Adapters V7.

The IBM Integration Designer includes technology and application adapters. The technology adapters and the adapter toolkit are included in IBM Integration Designer for deployment to WebSphere ESB at no extra cost. The application adapters - SAP, Oracle e-Business, Siebel, PeopleSoft, JD Edwards EnterpriseOne - are included in IBM Integration Designer and need to be licensed separately when used in production. Refer to Software Announcement 209-309, dated October 2, 2009.

IBM Integration Designer V7.5

WebSphere ESB customers need IBM Integration Designer V7.5 (previously known as WebSphere Integration Developer) as their development and test tool and for access to WebSphere Adapters. They can order the necessary per user license authorizations for the tool using the appropriate part number under product number 5725-C97:

- IBM Integration Designer, for WebSphere ESB on distributed
  - License + SW S&S 12 Months: D0INXLL
  - Annual SW S&S Renewal: E0BRLLL
  - SW S&S Reinstall 12 Months: D0INYLL
- IBM Integration Designer, for WebSphere ESB on System z
  - License + SW S&S 12 Months: D0INZLL
  - Annual SW S&S Renewal: E0BRMLL
  - SW S&S Reinstall 12 Months: D0IP0LL

For complete Ordering Information regarding IBM Integration Designer V7.5, including license, Subscription and Support (S&S), and media pack, refer to Software Announcement 211-092, dated April 5, 2011.

Passport Advantage customer

Media pack entitlement details

Customers with active maintenance or subscription for WebSphere ESB V7 are entitled to receive the corresponding V7.5 media pack.

WebSphere ESB V7.5

<table>
<thead>
<tr>
<th>Media pack description</th>
<th>Part number</th>
</tr>
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<tbody>
<tr>
<td>WebSphere Enterprise Service Bus V7.5 Windows</td>
<td>BA10DML</td>
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<tr>
<td>Multilingual Media Pack</td>
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<tr>
<td>WebSphere Enterprise Service Bus V7.5 AIX</td>
<td>BA10EML</td>
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<td>Multilingual Media Pack</td>
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<tr>
<td>WebSphere Enterprise Service Bus V7.5 Solaris</td>
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<td>WebSphere Enterprise Service Bus V7.5 HP-UX</td>
<td>BA10GML</td>
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<td>WebSphere Enterprise Service Bus V7.5 Linux x86</td>
<td>BA10HML</td>
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<td>Multilingual Media Pack</td>
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<tr>
<td>WebSphere Enterprise Service Bus V7.5 Linux</td>
<td>BA10IML</td>
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<tr>
<td>POWER Multilingual Media Pack</td>
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</table>
WebSphere Adapters V7.5

WebSphere Adapters V7.5 are part of IBM Integration Designer (5725-C97 IBM BPM); there is no separate media. Refer to Software Announcement 211-092, dated April 5, 2011.

Cross-platform product for use on System z Integrated Facility for Linux (IFL) engines

There is no change to the Ordering Information for WESB V7 for Linux. Refer to Software Announcement 209-309, dated October 2, 2009.

Basic license

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

There is no change to the ordering information. Refer to Software Announcement 209-309, dated October 2, 2009.

Translation from MSUs to Value Units

<table>
<thead>
<tr>
<th>Tier</th>
<th>MSUs</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1-3</td>
<td>1.00</td>
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<tr>
<td>Tier A</td>
<td>4-45</td>
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<tr>
<td>Tier B</td>
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<td>Tier C</td>
<td>176-315</td>
<td>0.27</td>
</tr>
<tr>
<td>Tier D</td>
<td>316+</td>
<td>0.20</td>
</tr>
</tbody>
</table>

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 V7.5
Program PID    5655-W09

There is no change to the ordering information. Refer to Software Announcement 209-309, dated October 2, 2009.

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

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. 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 automatically renew 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 System z 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 CBPDO, ServerPac, SystemPac®.

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the ShopzSeries help information at [http://www.software.ibm.com/ShopzSeries](http://www.software.ibm.com/ShopzSeries)

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options for CBPDO, ServerPac, and SystemPac, include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. 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 general availability
- SystemPac shipments will begin four weeks after general availability 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

WebSphere ESB 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 numbers**

- WebSphere ESB V7.5: L-SBRY-8C7D2ZT
- WebSphere Adapters V7.5: L-MMZH-8BY4PP

The License Information for WebSphere ESB and WebSphere Adapters will be available for review on the IBM Software License Agreement website


**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

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.

**Volume orders (IVO)**

No

**Passport Advantage applies**

Yes, and through the Passport Advantage website 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 website


**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 website 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 website 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:** (L-SBRY-8C7EWN)

The License Information for WebSphere ESB for z/OS will be available for review on the IBM Software License Agreement website


**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.

**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 website


**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 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.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Terms</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-W09</td>
<td>WebSphere ESB for z/OS, V7.5</td>
<td>Execution-based</td>
</tr>
</tbody>
</table>

**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


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.

z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS 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 website

http://ibm.com/zseries/library/swpriceinfo/
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 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 operating systems.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IB 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 website:


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 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 System z 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 Capacity on Demand (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 IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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**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


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**Prices**

<table>
<thead>
<tr>
<th>Program name/Description</th>
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<tr>
<td>WebSphere ESB V7.5</td>
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<tr>
<td>WebSphere ESB for z/OS V7.5</td>
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<tr>
<td>WebSphere Adapters V7.5</td>
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</tbody>
</table>

For current prices, visit


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

On/Off Capacity on Demand

WebSphere ESB for z/OS, V7.5 - OOCoD

WebSphere ESB, for z/OS V7.5 is eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

<table>
<thead>
<tr>
<th>Program Name</th>
<th>WebSphere Enterprise Service Bus for z/OS V7.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program PID</td>
<td>5655-W09</td>
</tr>
</tbody>
</table>

Entitlement Identifier Description License options/Pricing metrics
S015MTC  WebSphere ESB for z/OS, V7.5  Basic OTC, Per MSU-day TUC

WebSphere Enterprise Service Bus for z/OS V7.5 - Value unit

Program Name  WebSphere Enterprise Service Bus for z/OS V7.5
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, V7.5  Basic OTC, Value Units
S015MTC  WebSphere ESB for z/OS, V7.5  Basic OTC, Value Units
Trade-up from WebSphere Application Server for z/OS, V7.0 (5655-N02)

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  Basic ASC, Value Units SW S&S
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.

<table>
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</table>

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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http://www.ibm.com/financing

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer’s credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

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For more financing information, visit

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Order now

To order, contact your local IBM representative or your IBM Business Partner.

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Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)

For IBM representative: callserv@ca.ibm.com

For IBM Business Partner: pwswna@us.ibm.com

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Markham, Ontario
Canada L3R 2Z1

Reference: YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

IBM Software ValueNet

These products are available under IBM Software ValueNet, either directly from IBM or through authorized Business Partners who invest in skills and high value solutions. IBM customers may benefit from the industry-specific or horizontal solutions, skills and expertise provided by these Business Partners.

Additions to Software ValueNet will be communicated through standard product announcements. For a current list of IBM software available under Software ValueNet, visit

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

Questions regarding IBM Software ValueNet may be sent to
AskSoftwareValueNet@us.ibm.com

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