IBM WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5 – WebSphere Studio’s Next Generation Application Development Environment

Overview

WebSphere® Studio Application Developer Integration Edition for Linux and Windows®, V5, in conjunction with WebSphere Application Server Enterprise, V5, delivers a next generation application server and development environment. This environment delivers on-demand e-business applications by simplifying build-to-integrate tasks, accelerating large-scale application development, and enabling real-time application flexibility.

Companies today face a growing problem. The past 40 years of IT evolution have left them with an enterprise-computing infrastructure that is heterogeneous, widely distributed, and increasingly complex. They face constant pressure to create new applications in order to cut costs, build customer loyalties, and gain a competitive advantage.

Instead of reinventing the wheel with every new application they build, companies need a way to reuse their existing software assets and to leverage the power of Web services in the development of new J2EE-based applications.

Application Developer Integration Edition and WebSphere Application Server Enterprise help you build new applications that integrate with existing assets by leveraging a service-oriented architecture to reduce the complexity of large-scale application development and promote reuse by offering a standard way of representing and interacting with virtually all software assets.

Integrated workflow increases productivity by enabling developers to visually choreograph interactions between software assets. Advanced transactional connectivity capabilities help developers avoid custom coding by providing extended transactional support for the many challenges related to integrating existing software assets with a J2EE environment.

Application Developer Integration Edition also includes a fully-integrated application development environment for creating and maintaining J2EE applications and Web services.

Key Prerequisites

Refer to the Hardware Requirements and Software Requirements sections.

Planned Availability Dates

- February 21, 2003: Electronic Software Delivery
- March 14, 2003: Media Pack

At a Glance

WebSphere Studio Application Developer Integration Edition, in conjunction with WebSphere Application Server Enterprise, delivers a next generation application server and development environment designed to:

- **Simplify build-to-integrate tasks** by reducing IT complexity, reusing existing resources, and automating business processes through a powerful but simplified integration framework.

- **Accelerate large-scale application development** by leveraging the latest innovations that build on today’s J2EE standards.

  This then deploys a high performance e-business infrastructure designed to cut costs, build customer loyalties, promote business agility, and gain a competitive advantage.

- **Enable real-time application flexibility** by taking advantage of dynamic application support that allows you to build applications that can adapt on demand to the ever-changing world of e-business.

For ordering, contact:
Your IBM representative or the Americas Call Centers at 800-IBM-CALL
Reference: SE001

- **Simplify build-to-integrate tasks** — reduce IT complexity, reuse existing resources, and automate business processes through a powerful but simplified build-to-integrate framework.

- **Accelerate large-scale application development** — leverage the latest innovations that build on today’s Java™ 2 Platform, Enterprise Edition (J2EE) standards to deploy a high-performance e-business infrastructure designed to cut costs, build customer loyalties, promote business agility, and gain a competitive advantage.

- **Enable real-time application flexibility** — take advantage of dynamic application support that allows you to build applications that can adapt on demand to the ever-changing world of e-business.

New in WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5:

- Visual process editor enhancements for human interaction, event triggering, compensation pairs, visual process debugger, fault handling, top-down development
- Extended messaging support
- Cheat sheets
- Support for Linux and Windows XP
- Support for WebSphere Business Integration Adapters
- Support for WebSphere Application Server
- Based on Eclipse Version 2
- Support for J2EE 1.3
- Enhanced support for Java, Web services, XML, Database, Team, Test and Analysis, and Web

**Simplify Build-to-Integrate Tasks**

Companies today face a growing problem as they begin to explore new e-business initiatives. The past 40 years of IT evolution have left them with an enterprise-computing infrastructure that is heterogeneous, widely distributed, and increasingly complex.

Business logic and application data are scattered throughout the organization across multiple software assets. Much of the business logic resides in databases, packaged applications (such as Enterprise Resource Planning (ERP) systems), or in back-end systems (such as CICS®) offering varying levels of transaction support. Other business logic can be found in existing Java and J2EE applications and Web services. Furthermore, companies face constant pressure to increase the reach of their applications in order to cut costs, build customer loyalties, and gain a competitive advantage.

Instead of reinventing the wheel with every new application they build, companies need a way to reuse their existing software assets and to leverage the power of Web services in the development of new J2EE-based applications.

WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise help companies to reduce IT complexity, reuse existing resources, and automate business processes through a powerful but simplified build-to-integrate framework.

- **The service-oriented architecture** — reduces the complexity of large-scale application development and promotes reuse by offering a standard way of representing and interacting with virtually all software assets.

- **Integrated workflow** — increases development productivity and promotes reuse by enabling developers to visually choreograph interactions between software assets.

- **Advanced transactional connectivity** — Capabilities help developers avoid custom coding by providing extended transactional support for the many challenges related to integrating existing software assets with a J2EE environment.

**Service-Oriented Architecture**

Building new applications that integrate business logic and application data within the organization and with suppliers, partners, and customers is critical to the success of today’s organizations. However, this integration remains complex, expensive, and risky.

A service-oriented architecture leverages open standards to represent virtually all software assets as services including legacy applications, packaged applications, J2EE components or Web services. This approach provides developers with a standard way of representing and interacting with software assets without having to spend time working with unique interfaces and low-level APIs. Furthermore, individual software assets become building blocks that can be reused in developing other applications.

Using this new service-oriented approach to integration, WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise help reduce the complexity, cost, and risk of integration by providing a single, simple architectural framework based on Web Services in which to build, deploy, and manage application functionality.

**Integrated J2EE-Based Workflow**

Once a developer has created services out of an organization’s software assets, the next logical step is to use those assets as part of a business process. Integrated J2EE workflow capabilities offer developers intuitive, flow-based development tools, to take existing software assets and quickly define how those assets are used within a J2EE-based application.

For example, the visual workflow tools can be used to combine inventory information from a packaged ERP application and J2EE components from a previously built customer-facing application with new business logic to create a new Web-based order entry application. The reach of the application can then be extended by exposing it as a Web service for use by business partners or to allow manual intervention for exception handling. The result is faster development of new applications, improved consistency, and lower costs through the reuse of existing IT investments.

- **Human interaction** — offers support for including activities that require a person to perform a task as a step in an automated business process. Specialized staff support allows the dynamic assignment of responsibilities based on existing organizational definitions. Worklists can be created to let the designated recipient know that their action is required.
• Event triggering — offers support for including asynchronous events such as Web services or human interactions to be included as part of a business process. Events can be used to trigger the start of a business process, or a business process can be configured to stop and wait for an external event to occur before resuming the process.

• Compensation pairs — provides transaction “rollback” support for long-running, loosely-coupled business processes that cannot be undone automatically by the application server. For example, the compensating transaction for an order that has already started manufacturing might be to put the complete item into inventory (rather than disassembling the item). Compensation pairs allow you to visually define, for each step in your business process, the associated “undo” service.

• Flexible workflow design — lets developers design workflows using a top-down, bottom-up, or meet-in-the-middle approach. Using top-down, developers can create skeleton processes that choreograph the sequence of events in a workflow without worrying about the underlying implementation. Building from the bottom-up, developers first create the individual components and then use them as building blocks to define a workflow. Meet-in-the-middle offers the flexibility of using both approaches at the same time.

Advanced Transactional Connectivity

Since its inception, the J2EE platform has made huge strides in providing enterprise-level support for integration including support for messaging, security, and database access. The Java Connector Architecture (JCA) 1.0 standard begins to offer support for integrating with packaged and legacy applications. However, due to lack of adherence to data standards and limited transactional support, integrating with most back-end resources and legacy data can still be extremely difficult and risky.

WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise offer advanced transactional capabilities to help developers avoid custom coding by providing support for the many challenges related to integrating existing software assets with a J2EE environment.

• Dynamic application adapter support — offers the ability to build and deploy rich, open standards-based application adapters for popular Enterprise Information Systems such as SAP and CICS.

• Last participant support — provides automated coordination for transactions that include two-phase commit resources and a single one-phase commit resource. This support eliminates hand coding in this scenario and allows you to include one-phase commit resources, common for many legacy and package applications, in real transactions.

• Activity session services — provide the ability to extend the scope of, and group, multiple local transactions. These local transactions can then be committed based on deployment criteria or through explicit program logic. This ability reduces the complexity of dealing with commitment rules and limitations associated with one-phase commit resources.

• CORBA C++ Software Development Kit (SDK) — used for integrating various C++ assets. This lets C++ clients invoke J2EE components using CORBA technology and also lets WebSphere applications incorporate C++ assets behind CORBA wrappers.

Accelerate Large-Scale Application Development

Companies today strive to respond with flexibility and speed to customer demands, market opportunities, and external threats. However, for most companies, the cost and complexity of large-scale application development make this goal extremely difficult to achieve.

WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise leverage the latest innovations that build on today’s J2EE standards to help you deploy a high-performance e-business infrastructure designed to cut costs, build customer loyalties, promote business agility, and gain a competitive advantage.

• Optimize application performance — use powerful application profiling techniques, sophisticated deployment management, and advanced support for Web services to optimize performance and minimize downtime for applications that require highly available, high-volume, multi-server environments.

• Enable “next generation” development by leveraging the latest innovations that build on today’s J2EE standards to achieve greater control over application development, execution, and performance than previously possible.

• Increase development productivity by taking advantage of supported, prebuilt, J2EE-based solutions to many of today’s biggest programming challenges.

Optimize Application Performance

Increasingly, organizations are using Web applications both internally and externally to incorporate customers, partners, and suppliers into their business processes. For these mission-critical processes, application performance can make the difference between competitive advantage and failure to compete. WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise help you optimize performance and minimize downtime for applications that require highly available, high-volume, multi-server environments through powerful application profiling techniques, sophisticated deployment management, and advanced support for Web services.

• Application profiling — delivers powerful new capabilities that allow you to carefully optimize the performance of applications without any impact on source code. This capability offers a mechanism for specifying the access intent of persistent entity JavaBeans (EJBs) allowing them to interact with the runtime infrastructure, such as a database, differently depending on the access intent (for example read versus update) of the application that calls it. The result is unprecedented control in defining strategies that dynamically control concurrency, pre-fetch, and read-ahead.

• Deployment manager — addresses the needs of highly available, high-volume, multi-server environments through enhanced workload management and dynamic caching, centralized security capabilities, and performance management tools that distribute workload across multiple servers through sophisticated load balancing and clustering capabilities. The deployment manager also enables isolation of application servers to avoid single points of failure and provides first failure data capture to report and analyze problems as they occur.
Advanced Web services support — includes a UDDI Registry that acts as a repository that allows for:
- Storage of business units that describe basic Web services
- A Web Services Gateway that enables Web services invocation by users from outside the firewall with the benefit of robust security protection

Advanced Web services support also extends the Web Services Gateway by providing a programming model that allows you to use the gateway in large-scale Web services implementations to serve as a bidirectional control point for critical tasks such as validation, logging, transformation, auditing, and metering.

Enable “Next Generation” development

Ironically, J2EE’s main advantage, its specification, can also be its biggest disadvantage for developers building applications that require them to have more control over their applications than the J2EE specifications provide. For those developers, WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise enable “next generation” development by leveraging the latest innovations that build on today’s J2EE standards to provide greater control over application development, execution, and performance than ever possible before.

- Asynchronous beans — offer exceptional performance enhancements for resource-intensive tasks by enabling a single request to be executed as multiple tasks or threads processed in parallel within the J2EE environment. Asynchronous scheduling facilities can also be used to process parallel processing requests in “batch mode” at a designated time.
- Startup beans — allow business logic to be automatically executed when an application starts or stops. For example, they might be used to pre-fill application specific caches, initialize application level connection pools, or perform other application-specific initialization and termination procedures.
- Scheduler service — helps minimize IT costs and increase application speed and responsiveness by maximizing utilization of existing computing resources. The scheduler service provides the ability to process workloads using parallel processing, set specific transactions as high priority, and schedule less time-sensitive tasks to process during low-traffic off hours.
- Object pools — increase application performance by allowing instances of objects to be reused, reducing the overhead associated with the reuse, and garbage collecting the objects. Creating an object pool allows an application to obtain an instance of a Java object and return the instance to the pool when it has finished.

Increase Development Productivity

The time required to roll out new applications is a key concern across all industries. One way to vastly improve developer productivity is to reduce the need for handcrafted solutions that can be time-consuming, costly, and difficult to maintain. WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise were designed to improve developer productivity by leveraging the latest innovations that build on today’s J2EE standards to provide supported, pre-built solutions to many of these challenges.

Extended messaging — allows you to quickly create applications that integrate with other systems through a messaging infrastructure. This extended messaging capability offers automated support for outbound (as well as inbound) messaging, allowing you to focus on business logic instead of complex messaging APIs. Handcrafted Java Message Service (JMS) code is no longer required. WebSphere Application Server Enterprise includes WebSphere MQ and WebSphere MQ Event Broker (under limited terms and conditions) to further extend your Java messaging infrastructure to take advantage of both products’ qualities of service and to enable seamless integration with existing MQ infrastructures.

Cheat sheets — make new or complex tasks easy by providing a checklist for common development patterns. The cheat sheet invokes each step in the checklist and provides detailed online help for each step, as you need it.

Best-in-class IDE — WebSphere Studio Application Developer Integration Edition, V5 includes all of the functionality of WebSphere Studio Application Developer for Linux and Windows and Linux, V5 to help you optimize and simplify J2EE application development with best practices, templates, code generation, and the most comprehensive development environment in its class. For more information on WebSphere Studio Application Developer Software Announcement 202-330, dated December 3, 2002.

Internationalization service — allows you to automatically recognize the calling client’s time zone and location information so your application can act appropriately. This technology allows you to deliver information to each user, around the world, the right date and time information, the appropriate currencies and languages, and the correct date and decimal formats.

Work areas — provides a “global variable” like ability to efficiently share information across a distributed application. For example, you may want to add profile information as each customer enters your application. By placing this information in a work area via numerous application interfaces, it will be available throughout your distributed application and eliminate the need to hand-code a solution or to read and write information to a database.

Enable Real-Time Application Flexibility

Maintaining competitive advantage in today’s changing business environment requires companies to respond quickly to customer demands, market opportunities, and external threats. Very often this means making frequent updates to e-business applications to reflect changes in market conditions or to provide access to strategic information. Unfortunately, these updates usually take a great deal of time. Time to bring down the application, time to make programming changes, times to test the new application, and time to redeploy.

To enable real-time application flexibility, WebSphere Studio Application Developer Integration Edition and WebSphere Application Server Enterprise offer dynamic application support to enable you to build applications that can easily adapt to the ever-changing world of e-business on demand™.

Business rule beans — offer a powerful real-time framework for defining, executing, and managing business rules that encapsulate business policies that vary based on changes in the business environment. For example, a simple business rule might be, “If a customer’s shopping cart is greater than $X, then offer a Y% discount.” Once the business rule is defined, a
WebSphere Studio is available in several configurations, each designed for a specific need:

**WebSphere Studio Homepage Builder** is an entry-level Web-authoring tool. You can create and publish Web sites with ease by using the intuitive WYSIWYG user interface, easy to use wizards, templates, and support for JavaScript, Dynamic HTML, and CSS.

**WebSphere Studio Site Developer** is the on-ramp to the WebSphere Studio experience. This robust, easy-to-use development environment helps you to create, build, and maintain dynamic Web sites, applications, and Web services.

**WebSphere Studio Application** is the core application development environment from IBM. It helps to optimize and simplify J2EE application development with best practices, templates, code generation, and the most comprehensive development environment in its class.

**WebSphere Studio Application Developer Integration Edition** builds on the complete set of functionality offered by WebSphere Studio Application Developer to deliver a next generation development environment designed to deliver on-demand e-business applications by simplifying build-to-integrate tasks, accelerating large-scale application development and enabling real-time application flexibility for applications that deploy to WebSphere Application Server Enterprise, V5.

**WebSphere Studio Enterprise Developer** is the Web and traditional development environment for the Enterprise. It brings the power of J2EE, rapid application development and team support to diverse enterprise application development organizations.

### Statement of Direction

#### Adapter Support

Planned for availability in the first half of 2003, WebSphere Studio Application Developer Integration Edition V5 in conjunction with WebSphere Application Server will provide support for the suite of 30+ WebSphere Business Integration Adapters including adapters for SAP R3, PeopleSoft, Siebel, Oracle Applications, SWIFT and other applications and technologies. WebSphere Business Integration Adapters help customers achieve business agility by integrating applications and automating business processes, and IBM’s portfolio of adapters includes solutions for packaged applications, e-business architecture, legacy products, technology protocols, industry solutions and trading partner connectivity.

IBM is driving open standards in application integration and connectivity, and is committed to introducing WebSphere Business Integration Adapters developed on the latest open standards, including the J2EE Connector Architecture standard.

#### Business Process Execution Language for Web services

IBM intends to make available Business Process Execution Language For Web Services (BPEL4WS) in future releases of WebSphere Studio Application Developer Integration Edition V5 and WebSphere Application Server Enterprise V5.

BPEL4WS is the new emerging standard for the modeling and execution of business processes in an e-business environment. This standard is jointly supported by Microsoft Corporation, BEA Systems, Inc., and International Business Machines Corporation. Refer to the press release dated August 9, 2002 at the following Web site:

http://www-916.ibm.com/press/prnews/Jan/AD23C3FF0C20CD1582556C10004F7E52

These statements represent current intentions of IBM. The IBM development plans are subject to change or withdrawal without further notice. Any reliance on this Statement of Direction is at the relying party’s sole risk and will not create any liability or obligation for IBM.

All statements regarding IBM’s plans, directions, and intent are subject to change or withdrawal without notice.

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Education Support

At the present time, education and classes in support of WebSphere® Studio Application Developer Integration Edition for Linux and Windows®, V5.0 and WebSphere Application Server Enterprise, V5 are being developed. When they are ready, an announcement will be made through the appropriate channels.

The following educational resources are currently developing Education for Application Developer Integration Edition and WebSphere Application Server Enterprise and/or provide education for previous versions of the product:

For courses offered by IBM Learning Services at IBM or Authorized Business Partner locations, visit:

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

For educational resources provided by WebSphere Developer Domain, visit:


For courses offered by WebSphere Training and Technical Enablement, visit:

http://www-4.ibm.com/software/ad/aimclasses/

Redbooks™ can be found at the following location (search for WebSphere Studio and WebSphere Application Server):

http://www.redbooks.ibm.com/

IBM Redbook Coming Soon: Building and Deploying WebSphere Applications with WebSphere Studio Application Developer Integration Edition V5 (SA-W210)

Offering Information

Product information will be available on day of announcement through Offering Information (OITOOL) at:

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

Technical Information

Hardware Requirements: Minimum System Requirements

- Intel® Pentium® II Processor minimum Pentium III 500 MHz, or higher, recommended
- 512 MB RAM minimum (768 MB RAM recommended)
- Required hard drive space: 1.3 GB
- Windows: VGA (800 x 600) display, or higher, (1024 x 768 recommended)
- LINUX: SVGA (1024 x 768) display, or higher

Software Requirements

For Windows NT®

- Windows NT server or Workgroup V4.0, SP6a, or later
- Microsoft Internet Explorer 5.5, SP1, or later

For Windows 2000

- Windows 2000 Professional, Server, or Advanced Server, SP1 or later
- Microsoft Internet Explorer 5.5, SP1, or later

Publications

No publications are shipped with this program.

The Publication Notification System (PNS) is available by order number/product number. Customers currently subscribing to PNS will automatically receive notifications by e-mail. Customers who wish to subscribe, can visit the PNS Web site location at:


The IBM Publications Center Portal:

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

Note: PNS subscribers most often order their publications via the Publications Center.

Displayable Softcopy Publications:

A PDF version of the following are available:

- WebSphere Studio Application Developer Integration Edition, Getting Started
- Travel Agency Scenario: Business Integration
- Auction Administration Scenario: Business Integration
- eMerged Financial Portal Scenario: Business Integration
- Travel Booking Scenario: Business Integration
- Product Overview: Application Developer Integration Edition

The help system, sample documents, and other product documentation are available in HTML. These require a Web browser that supports HTML 3.2, and Cascading Style Sheet (CSS). Microsoft™ Internet Explorer V5.5, SP1®, or later, is required.

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
For Windows XP
- Windows XP Professional
For Linux (Red Hat 7.2 or SuSE 7.2), or later
- Web Browser Netscape Navigator 4.6 or 6.0. Built-in server testing environment requires the use of Netscape V6.0.
- Web Browser Mozilla 0.7, or later

Direct Customer Support: Direct customer support is provided by IBM Operational Support Services — Support Line. This fee service enhances customers’ productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services — Support Line will help answer questions pertaining to usage, and suspected software defects for eligible products.

Installation and technical support is provided by the Personal Systems Support Family for WebSphere Studio, V4.0. For more information, contact the Personal System Support Family Project Office at 800-799-7765, or the IBM Support Family Information Center at 800-742-9235.

Packaging: The WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5 media package (BA07CML) contains the following items packaged as a single unit:
- Media:
  - WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5.0 CDs
  - DB2 Connect® Personal Edition, V7.2 FP7 for the Windows Operating Environments CDs
  - DB2 Universal Database® (UDB) Personal Edition, V7.2 FP7 for the Windows Operating Environments CDs
  - DB2 Connect Personal Edition, V7.2 FP7 for Linux for Intel CD
  - DB2 UDB Personal Edition, V7.2 FP7 for Linux for Intel CD
  - DB2 UDB Image, Audio and Video Extenders and Text Extender V7.1 CD
  - DB2 UDB XML Extender V7.2 FP7 CD
  - WebSphere Application Server for Developers V5 CDs.
  - WebSphere Application Server Enterprise for Windows and Clients, V5 CDs
  - WebSphere Application Server Deployment Manager V5 CDs
  - WebSphere Application Server Edge Components V5 CDs
  - WebSphere MQSeries® for V5.3.1 CDs
  - WebSphere MQSeries V5.3.1 Client CD
  - WebSphere MQSeries Event Broker V2.1 CD
  - IBM Directory V4.1 CDs

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

Security, Auditability, and Control

WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5 uses the security and auditability features of the respective operating systems.

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

Ordering Information

This product is only available via Passport Advantage. It is not available as shrinkwrap.
- Product Group: WebSphere Tools
- Product Identifier Description: WebSphere Studio Application Developer Integration Edition, V5 (5724-D15)
- Product Category: WebSphere

WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5 is a stand-alone product with one charge unit — user. It is available in units of one.

Passport Advantage

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Competitive Products 1 — D513WLL

- Microsoft BizTalk Server
- Oracle 9iAS Enterprise Edition
- BEA WebLogic Integration
- BEA WebLogic Workshop
- Borland JBuilder Enterprise Edition
- Borland JBuilder Enterprise Edition and Optimizelt Suite
- Borland JBuilder WebLogic Edition
- Borland Enterprise Studio for Java
- Borland Enterprise Suite for Java
- Microsoft Visual Studio .NET Enterprise Developer
- Microsoft Visual Studio .NET Enterprise Architect
- Oracle Internet Developer Suite
Passport Advantage Customer: Media Pack Entitlement Details

Customers with active subscription on the products listed below are entitled to receive the corresponding media pack.

**WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5**

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**SUB-ID’s**

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**Terms and Conditions**

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**Licensing:** IBM International Program License Agreement. Proofs of Entitlement 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.

**License Information Form Number:** Softcopy only

**Limited Warranty Applies:** Softcopy only

**Program Services:** Available until November 30, 2005, for WebSphere Studio Application Developer Integration Edition for Linux and Windows, V5.

Windows NT will be supported to June 30, 2003. For customers using Windows NT, refer to the Microsoft Web site for Windows NT:


**Money-Back Guarantee:** If for any reason you are dissatisfied with the program, return it within 30 days from the invoice date, to the party (either IBM or its reseller) from whom you acquired it, for a refund. This applies only to your first acquisition of the program.

**Copy and Use on Home/Portable Computer:** Yes

**Volume Orders (IVO):** No

**Passport Advantage Applies:** Yes and through the Passport Advantage Web site at:

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

**Usage Restriction Applies:** Yes. For usage requirements, refer to the License which accompanies the product. Specifically, the Program-unique Terms (PUTs), part of the license records the restrictions on the use of the product and the software associated with the product.

**Software Maintenance Applies:** Yes

Software Maintenance, previously referred to as Subscription and Technical Support, is now included in the Passport Advantage Agreement. Installation and technical support for the product announced in this letter is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity by providing voice and electronic access into the IBM support organizations.

IBM includes Software Maintenance with each program acquired during the coverage period. The coverage period means the period commencing on the date you acquire the program up to the first or second anniversary date, depending on whether you acquired coverage for one or two anniversaries. The coverage period for Software Maintenance acquired in the two months preceding an anniversary date will be extended to the next applicable anniversary date.

While your 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 Guide at:

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