IBM Rational Business Developer V7.1 helps IT organizations simplify and accelerate development of Web and SOA applications, modernize existing systems, and reduce

At a glance

IBM Rational Business Developer V7.1 enables IT organizations to build innovative solutions while:

- Controlling costs

- Reducing application backlogs

- Improving flexibility and responsiveness to the business

IBM Rational Business Developer lets IT organizations achieve increased levels of application development productivity and enable business savvy developers to exploit emerging computing technologies to fulfill new and changing business requirements with minimum retraining costs and time.

IBM Rational Business Developer allows organizations to easily reuse and extend valuable existing IT assets, including automated conversion of IBM VisualAge® Generator applications to EGL.

Overview

The explosion of computer networks and the global reach of the internet are transforming the way businesses operate and use business information, and the era of traditional application islands is rapidly coming to an end. Integrating and enhancing existing systems and processes is at the top of the agenda for many chief information officers, driving organizations to embrace service orientation as the architectural underpinning for modernization. Achieving an effective modernization strategy requires software development capabilities that support new middleware and emerging application architectures.

IBM evolved the capabilities of the IBM Rational® Software Delivery Platform to address this need with an integrated set of tools, methodologies, and best practices, which enable effective governance of the software development process and accelerate the transition to service oriented architecture (SOA).

IBM recognizes that the construction of cross-platform, Web-based and service-oriented solution poses significant technical challenges that require a long and continuous learning process. This issue is not new in our industry. With each computing technology revolution came new technical programming challenges that taxed developers' time in terms of learning and coding intricate systems services interfaces at the expense of time devoted to coding business functionality.

To simplify the implementation of Web and SOA solution, IBM has introduced the Enterprise Generation Language (EGL) programming language as an integral part of the Eclipse-based programming workbench of the IBM Rational Software Delivery Platform. Easier to learn and more productive to use than other languages, EGL complements the breadth and depth of Java™ and COBOL technology with a simplified and more abstract development paradigm that allows

developers of any background skill set to quickly deliver cross-platform, transactional data-centric services, and applications.

EGL provides a way for IT organizations to embrace modern Web and SOA technologies without forcing the entire team of developers to learn and master the low-level intricacies and complexities of Java and SOA programming. EGL is ideal for the business-oriented development teams, who value ease of learning and high productivity, need to deliver modern applications and services but cannot afford the time, cost and risk to transform each developer into a Java and Object Oriented expert.

IBM Rational Business Developer provides a comprehensive and powerful development workbench for the EGL language.

For more information on IBM Rational products, visit

   http://www-306.ibm.com/software/awdtools/developer/business/

For more information about the IBM Passport Advantage® program, visit

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

Key prerequisites

Refer to the Hardware requirements and Software requirements sections.

Planned availability dates

- March 25, 2008 (electronic software delivery)

- April 11, 2008 (media and documentation)

Description

IBM Rational Business Developer delivers the latest technology tools to support the definition and testing and debugging of EGL applications and services. It also offers a generation engine that transforms the EGL source into Java or COBOL code optimized for deployment to a broad variety of application hosting environments including J2EE servers (WebSphere®, Apache Tomcat, i5/OS™ Integrated Application Server, and so on) and traditional transactional systems such as IBM System z™ CICS® and Information Management System (IMS™) or System i™ i5OS.

EGL hides the details of the target execution platforms and associated middleware, freeing developers to focus on the business problem rather than on the underlying implementation technologies. Developers who have little or no experience with Java and Web technologies can use EGL to create enterprise-class services and applications quickly and easily. Developers with little or no experience with mainframe programming can quickly create highly optimized System z or System i services and applications.

IBM Rational Business Developer V7.1 is the replacement product for IBM Rational Business Developer Extension V7.0. In this new release, the product is significantly enhanced and repackaged to install as a stand-alone product and no longer as an extension of a separate base product.

The new product functions further strengthen the platform coverage, the support for an SOA and for business integration solutions, the usability and versatility of the EGL language, and provide a conversion path for IBM VisualAge Generator users.

IBM Rational Business Developer addresses the full spectrum of modern business application requirements including development of:

- **Business services:** The language includes the built-in notion of "service" allowing you to create and invoke services in an extremely simple and straightforward way, and to permeate systems architecture with service orientation.

- **Web applications:** Tight integration of EGL with Java Server Faces (JSF) framework and JSF tooling enables programmers to create Web applications in a simple and productive way, without the need to know either Java or the details of the JSF framework.

- **Portlets:** EGL JSF Web applications can also be deployed to WebSphere Portal Server, and EGL provides built-in functions to interface the portal framework, including support for inter-portlet communications.

- **Reports:** EGL integration with the BIRT, an open source reporting engine, allows you to create professional reports.

- **Batch systems:** The language includes the built-in notion of "batch program", which can be generated to run without end-user interaction; for example, to produce reports or to batch database loads and updates.

- **Text user-interface applications:** To facilitate migration of existing systems to a modern development environment, EGL includes the ability to create traditional character-based (green-screen, such as 5250 and 3270) user interfaces and relative programming constructs. This capability can also be used for new development if needed.

IBM Rational Business Developer V7.1 delivers the following enhancements in addition to the existing capabilities of IBM Rational Business Developer Extension V7.0:

- **Support for MQ Series:** Message queues can now be accessed using EGL language abstractions.

- **Support for IMS/DB (DL/I):** Hierarchical databases can now be accessed using EGL language abstractions: IMS data can be accessed both during the debugging within the developer workbench, as well as from the deployed code.

- **IMS/TM support:** Generated COBOL can now be deployed to the System z IMS/TM transaction manager.

- **I5/OS Integrated Application Server support:** Generated Java Web applications can now be deployed to the i5/OS Integrated Application Server.

- **I5/OS Data Queues and Data Areas support:** These resources can now be accessed through the use of new EGL functions.

- **CSV files support:** Comma separated value (CSV) files can now be accessed using EGL language abstractions.

- **Text User Interface applications:** Language elements and tools allow you to write traditional 5250 or 3270 character based user interface programs.

- **Web Transaction support:** To facilitate migration of VisualAge Generator Web applications EGL now supports the development and generation of applications using the VisualAge Generator Web Transaction feature.

- **BIRT integration:** EGL integration with BIRT, an open source reporting engine, enables creation of professional reports.

- **Portlets support:** EGL JSF Web applications can now be deployed to WebSphere Portal Server, and EGL provides built-in functions to interface the Portal framework, including support for inter-portlet communications.

- **Enhanced security:** EGL applications can now include user sign-on capability to restrict access to resources only to authorized users, through new EGL support for access to JNDI/LDAP directory data and enablement of both container-managed and application-managed security.

- **JSF support enhancements:** IBM Rational Business Developer 7.1 includes several editor usability enhancements, the use of JSF AJAX-enabled type-ahead fields, and the use of LDAP security JSF support.

- **EGL language enhancements:** These include the use of XOR operator, the ability to pass and return EGL records on function invocations and other minor enhancement.

- **EGL invocation from native Java:** IBM Rational Business Developer now generates Java wrappers that enables EGL invocation from native Java.

- **ILE service procedures invocation:** EGL can now invoke native i5/OS ILE service procedures.

- **Usability enhancements:** A new project wizard and numerous source editor and debugger improvements (such as automated formatting, improved content assist, dynamic error markers, code refactoring, "jump to line" during debugging, dynamic code modification during debugging) significantly simplify the EGL development experience.

- **Bi-directional text enhancements:** A number of enhancements enable development and deployment of applications that require bi-directional text support.

- **Built-in tools:** Tools allow for automated conversion of VisualAge Generator code to EGL.

IBM Rational Business Developer generates COBOL code that can be deployed to the following environments:

- z/OS® V1.6, or later: batch, CICS, IMS/TM — Programs deployed to any of these platforms require the IBM Rational COBOL Runtime for zSeries® V6.0.1 product

- iSeries™ V5.R3, V5.R4, and V6.R1

IBM Rational Business Developer generates Java code that can be deployed to the following environments:

- z/OS V1.6 or later. Web applications require WAS for z/OS 5.1.2, or later.

- iSeries V5.R3 or later. Web applications require WAS 5.1.2, or later, Apache Tomcat 5.5, or later, or the i5/OS Integrated Application Server.

- AIX® V5.2. Web application requires WebSphere Application Server V5.1.2, or later or Apache Tomcat 5.5, or later.

- Windows® 2000, 2003, XP. Web application requires WebSphere Application Server V5.1.2, or later or Apache Tomcat 5.5, or later.

- Linux™ (Red Hat 3, or higher, SUSE 9). Web application requires WebSphere Application Server V5.1.2, or later or Apache Tomcat 5.5, or later.

- HP Unix 11iv2. Web application requires WebSphere Application Server V5.1.2, or later or Apache Tomcat 5.5, or later.

- Solaris 9 or later. Web application requires WebSphere Application Server V5.1.2, or later or Apache Tomcat 5.5, or later.

Current users of EGL V6 tools contained in the following products are entitled to receive IBM Rational Business Developer V7.1 at no charge:

- IBM Rational Web Developer V6

- IBM Rational Application Developer V6

- IBM Rational Software Architect V6

- WebSphere Developer for z/OS V6

- WebSphere Development Studio Client — Advanced Edition V6

Execution of the entitlement to IBM Rational Business Developer V7.1 will not occur automatically. Clients currently holding licenses of the listed products must submit a request by contacting an IBM Rational representative. For more information, visit

http://www-306.ibm.com/software/rational/support/migrations/rbde.html

To qualify for this entitlement, clients must be current on their maintenance contract for the qualifying V6 product.

Section 508 of the U.S. Rehabilitation Act

Rational Business Developer is capable as of April 11, 2008, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested on the following Web site

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

IPLA and Subscription and Support considerations

IPLA licenses can be transferred from one machine to another within, but not limited to an enterprise. You may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement (PoE). It is your responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and Support will be available in the country in which the agreement is made.

Statement of direction

IBM is currently extending EGL to deliver a simplified programming model for developing Web 2.0 applications based on Ajax, JavaScript, and HTML. This technology will be available in second quarter 2008 as an IBM AlphaWorks® project.

For more information on EGL Rich Web support, visit

http://www.alphaworks.ibm.com/

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

Availability of national languages

Product description	Language	GA date
Ratl Business Developer V7.1.0	Multilingual (French, Russian, Korean, Chinese — Simplified, Spanish, Portuguese- Brazilian, German, Japanese, Chinese — Traditional, Hungarian, English, Czech, Italian, Polish)	April 11, 2008

Trademarks

i5/OS, IMS, System z, System i, and iSeries are trademarks of International Business Machines Corporation in the United States or other countries or both.

Rational, Passport Advantage, VisualAge, WebSphere, CICS, z/OS, zSeries, AIX, and AlphaWorks are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Windows is a registered trademark of Microsoft Corporation.

Java is a trademark of Sun Microsystems, Inc.

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

No publications are shipped with this product.

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 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Technical information

Hardware requirements

- Processor: Minimum 800 MHz Pentium® III (or higher for best results).

- Memory: Minimum 1 GB RAM, 2 GB works well.

- Disk space: Minimum 3 GB of disk space is required for product package installation. Additional disk space is required for the resources that you develop.

Note: Disk space requirements can be reduced or increased depending on the features that you install.

- Additional disk space is required if you download the product package to install this product.

- For Windows®: Additional disk space is required if you use FAT32 instead of NTFS.

- For Windows: An additional 500 MB of disk space is required in the directory pointed to by your environment variable TEMP.

- For Linux™: An additional 500 MB of disk space is required in the /tmp directory.

- Display: 1024 x 768 display minimum using 256 colors (or higher for best results).

- Other hardware: Microsoft® mouse or compatible pointing device.

Software requirements: Operating systems

- Microsoft Windows 2000 Professional with Service Pack 4

- Microsoft Windows 2000 Server with Service Pack 4

- Microsoft Windows 2000 Advanced Server with Service Pack 4

- Microsoft Windows XP Professional with Service Pack 1 or 2

- Microsoft Windows XP Professional x64 Ed (AMD)

- Microsoft Windows Server 2003 Standard Edition with Service Pack 1

- Microsoft Windows Server 2003 Enterprise Edition with Service Pack 1

- Microsoft Vista (Business, Enterprise, Ultimate editions) V6.0 SP1®

- Red Hat Enterprise Linux Workstation V4.0

- Red Hat Enterprise Linux Desktop V4.0

- SuSE Linux Enterprise Server V9

- The VisualAge® Generator migration tool — Requires Microsoft Windows 2000 or Microsoft Windows XP

Runtime software requirements

IBM Rational® Business Developer generates COBOL code that can be deployed to the following environments:

- z/OS® V1.6, or later: batch, CICS®, IMS™/TM — Programs deployed to any of these platforms require the IBM Rational COBOL Runtime for zSeries® V6.0.1 product.

- iSeries™ V5.R3. V5.R4, and V6.R1.

IBM Rational Business Developer generates Java™ code that can be deployed to the following environments:

- z/OS V1.6, or later: Web applications require WebSphere® Application Server for z/OS 5.1.2, or later.

- iSeries V5.R3 or later: Web applications require WebSphere Application Server 5.1.2, or later; Apache Tomcat 5.5, or later; or the i5/OS™ Integrated Application Server.

- AIX® V5.2: Web applications require WebSphere Application Server V5.1.2, or later; or Apache Tomcat 5.5, or later.

- Windows 2000, 2003, XP, Vista: Web applications require WebSphere Application Server V5.1.2, or later; or Apache Tomcat 5.5, or later.

- Linux (Red Hat 3, or higher, SuSE 9): Web applications require WebSphere Application Server V5.1.2, or later; or Apache Tomcat 5.5, or later.

- HP UNIX® 11iv2: Web applications require WebSphere Application Server v5.1.2 or later; or Apache Tomcat 5.5, or later.

- Solaris 9, or later: Web applications require WebSphere Application Server v5.1.2, or later; or Apache Tomcat 5.5, or later.

- Portlet applications require WebSphere Portal Server V6.0.

Supported relational databases

- DB2® V7, and later

- IDS 7.3, and later

- Oracle 8, and later

- SQL Server 2000

- Derby 10

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a read-me file, or other information published by IBM, such as an announcement letter. Documentation and other Program content may be supplied only in the English language.

Planning information

Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the 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 Maintenance with each program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available.

Packaging

- IBM Rational Business Developer Quick Start Guide

- IBM Rational Business Developer License Activation Kit

- IBM Rational Business Developer

- DB2 Express Edition V9.5 Restricted Use Activation Kit

- DB2 Express Edition V9.5

- DB2 Connect® Personal Edition Client V9.5

- CICS Transaction Gateway V7.0

- Enterprise Deployment V7.0.6

Security, auditability, and control

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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

http://www.ibm.com/software/sw-services/

To locate an IBM Business Partner, visit

http://www.ibm.com/software/solutions/isv

Ordering information

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

Product information

Licensed function title	Product group	Product category
IBM Rational Business Developer	Design and Construction	Design and Construction

Program name	PID number	Charge unit description
IBM Rational Business Developer	5724-S50	Floating user
IBM Rational Business Developer	5724-S50	Floating user
IBM Rational Business Developer	5724-S50	Authorized user
IBM Rational Business Developer	5724-S50	Authorized user

Charge metrics definitions

Authorized user

An authorized user is one and only one individual (named or unnamed) within or outside your enterprise. A PoE must be obtained for each individual user accessing the program in any manner. A program licensed under an authorized user PoE may be installed on a single computer or server, and accessed by multiple users, provided that a PoE has been obtained for each individual user accessing the program either directly or indirectly (via a multiplexing

program, device, or application server) through any means on behalf of the user.

Floating user

You may utilize the program, including installation of the program on multiple servers, provided that use of the program occurs via a license server, and the total number of concurrent users does not exceed the total number of floating user licenses obtained for the program.

Passport Advantage program licenses

Part description	Part number
IBM Rational Business Developer	
Ratl Business Developer Authorized User Annual SW Maint Rnwl	E03SULL
Ratl Business Developer Authorized User Initl FT Lic+SW Maint 12 Mo	D610CLL
Ratl Business Developer Authorized User Lic+SW Maint 12 Mo	D6105LL
Ratl Business Developer Authorized User SW Maint Reinstate 12 Mo	D6106LL
Ratl Business Developer Authorized User SubSq FT Lic+SwM 12 Mo	E03SYLL
Ratl Business Developer Floating User Lic+SW Maint 12 Mo	D6103LL
Ratl Business Developer Floating User Annual SW Maint Rnwl	E03STLL
Ratl Business Developer Floating User SW Maint Reinstate 12 Mo	D6104LL

Passport Advantage Trade-up licenses

Rational Business Developer

Precursor product	Trade-up product	Part number
IBM Rational Business Developer		
VaGen or Informix(TM) 4GL	Ratl Bus Dev AuthUsr fr VaGen or Informix 4GL Trdup Lic+SW Maint 12 Mo	D6114LL
Ratl Business Developer Authorized User	Ratl Bus Dev FltUsr fr Ratl Bus Dev AthUsr Trdup Lic+SW Maint 12 Mo	D6115LL

Passport Advantage supply

Program name/description	Part number
Ratl Business Developer V7.1.0	
Ratl Business Developer Windows 2000, Windows Vista(R) Business, SUSE Linux Ent	BT04BML

Passport Advantage customer: Media pack entitlement details

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

Ratl Business Developer V7.1.0

Entitled maintenance offerings description	Media packs description	Part number
Rational Business Developer Authorized User	Ratl Business Developer Windows 2000, Windows Vista Business, SUSE Linux Ent	BT04BML
Rational Business Developer Floating User	Ratl Business Developer Windows 2000, Windows Vista Business, SUSE Linux Ent	BT04BML
Rational Business Developer for System z(TM) AuthUser	Ratl Business Developer Windows 2000, Windows Vista Business, SUSE Linux Ent	BT04BML

```
Rational Business              Ratl Business Developer      BT04BML
 Developer for System z         Windows 2000, Windows Vista
 Float User                     Business, SUSE Linux Ent
```

Cross-platform product for use on System z

Order the part numbers that follow when there is an intention to acquire this cross-platform product for deployment on the System z or S/390® platform. This set of part numbers provides the identical supply and authorization as the other set in this announcement. The distinction is to identify the planned deployment platform.

```
Program name/description        Part number

Ratl Business Developer for     D610ALL
 System z AthUsr SW Maint
 Reinstate 12 Mo
Ratl Business Developer for     E03SWLL
 System z Auth User Annual SW
 Maint Rnwl
Ratl Business Developer for     D6109LL
 System z Auth User Lic+SW Maint
 12 Mo
Ratl Business Developer for     E03SVLL
 System z Float User Annual SW
 Maint Rnwl
Ratl Business Developer for     D6107LL
 System z Floating Usr Lic+SW
 Maint 12 Mo
Ratl Business Developer for     D6108LL
 System z Flt Usr SW Maint
 Reinstate 12 Mo
```

Terms and conditions

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

Licensing: IBM International Program License Agreement including the License Information document and 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 Maintenance, previously referred to as Software Subscription and Technical Support.

License information form number

```
                                Program
Program name                    number          Form number

Rational Business Developer     5724-S50        L-KHUY-6YPTWM
```

The program's License Information will be available for review on the IBM Software License Agreement Web site

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

Limited warranty: Yes

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. Consult the IBM Software Support Handbook for further information at

http://techsupport.services.ibm.com/guides/handbook.html

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 three years from the general availability date, as long as your 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 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 programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

Authorization for use on home/portable computer: The program may be stored on the primary machine and another machine, provided that the program is not in active use on both machines at the same time. You may not copy and use this program on another computer without paying additional license fees.

Product name	
Rational Business Developer	Yes

Usage restriction: Yes

Some usage restrictions apply for the IBM Rational Application Developer functions when using the IBM Rational Business Developer V7.1 product. To enable Web application development using the EGL language, your copy of the IBM Rational Business Developer V7.1 product contains a portion of IBM Rational Application Developer V7.x product. You may use this portion of IBM Rational Application Developer only for development of EGL applications. Any use of IBM Rational Application Developer V7.x features for other purposes (for example, for developing J2EE applications using the Java language), requires purchase of a license of IBM Rational Application Developer.

For additional information refer to the License Information Document that is available on the IBM Software License Agreement Web site

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

Passport Advantage applies: Yes, and through the Passport Advantage Web site at

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

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

Agreement for Acquisition of Software Maintenance: The following agreement applies for maintenance and does not require customer signatures:

IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

Software maintenance applies: Yes. Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the 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 Maintenance with each program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available.

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, 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://techsupport.services.ibm.com/guides/handbook.html

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

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

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

Other terms

Volume orders (IVO): No

System i™ Software Maintenance applies: No

Educational allowance available: Not applicable

Prices

Passport Advantage

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

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

Business Partner information

If you are an IBM Business Partner — Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

https://www.ibm.com/software/howt obuy/passportadvantage/paoreseller

Trademarks

IMS, iSeries, i5/OS, Informix, System z, and System i are trademarks of International Business Machines Corporation in the United States or other countries or both.

Passport Advantage, SP1, VisualAge, Rational, CICS, z/OS, zSeries, WebSphere, AIX, DB2, DB2 Connect, S/390, and PartnerWorld are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Pentium is a registered trademark of Intel Corporation.

Windows, Microsoft, and Windows Vista are registered trademarks of Microsoft Corporation.

Java is a trademark of Sun Microsystems, Inc.

UNIX is a registered trademark of the Open Company in the United States and other countries.

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

Other company, product, and service names may be trademarks or service marks of others.