



IBM Rational Business Developer V7.5 and EGL help IT organizations simplify and accelerate development of Web and SOA applications, modernize existing systems, and reduce development costs

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At a glance

IBM® Rational® Business Developer V7.5, an integrated development environment for the EGL language, 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 enables business savvy developers to exploit emerging computing technologies to fulfill new and changing business requirements with minimum retraining costs and time.

EGL, IBM's newest business language, frees developers to focus on the business problem rather than on the details of the target execution platforms and associated middleware. EGL is ideal for business-oriented development teams who value ease of learning and high productivity, but need to quickly deliver modern applications and services.

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 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.

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.

Key prerequisites

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

Planned availability date

October 7, 2008 (electronic software delivery).

October 7, 2008 (media and documentation).

See the complete letter for globalization details.

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 (such as WebSphere®, Apache Tomcat, IBM i Integrated Application Server) and traditional transactional systems (such as IBM System z® CICS® and Information Management System (IMS™) or IBM i).

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 IBM i services and applications.

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.
- **Rich internet applications:** See the Statement of Direction
- **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 empowers you to increase your productivity for application development through:

- **Abstraction:** EGL provides concise and powerful notations that help to eliminate tight coupling. It reduces the amount of coding required to interface with systems and middleware. This abstraction simplifies and speeds up development.
- **Declarative programming:** EGL includes declarative specifications to help reduce repetitive and error-prone coding. For example, validation rules can be associated with a data item to trigger validation whenever the item is used in a Web page or 5250 screen.
- **Language:** EGL is a comprehensive, but easy-to-learn language. Modern, modular, and readable, it has a rich library of built-in functions to boost developer productivity for commonly required operations, such as date and time math, string manipulation, and more. In addition, the language is extensible and offers full interoperability with other languages, including EGL interfaces to native Java, and seamless invocation of RPG or COBOL programs or any ILE procedure.
- **Tools:** IBM Rational Business Developer contains a rich set of Eclipse-based capabilities, including EGL source level debugging, powerful smart editing, visual construction, graphical navigation, and automated generation of Create/Read/Update/Delete (CRUD) applications from Unified Modeling Language (UML) models or from data schemas.
- **SOA:** EGL is designed to facilitate services development and deployment. A simplified SOA development paradigm is built into the language itself and complemented with the tools. Services can be created without knowledge of Web service protocols and standards such as WSDL, SOAP, or XML.

IBM Rational Business Developer V7.5 delivers the following enhancements in addition to the existing capabilities of IBM Rational Business Developer Extension V7.1:

- Support for deployment of Web applications to WebSphere Application Server V7.0
- Support for deployment of portlets to WebSphere Portal V6.1
- Support for JavaServer Faces 1.2

Note: IBM Rational Business Developer V7.5 is built on Eclipse 3.4, and cannot shell-share with Eclipse 3.2-based development environments such as IBM Rational Application Developer V7, IBM Rational Developer for System z V7.1, or IBM Rational Developer for System i® for SOA Construction V7.1.

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 currently plans to deliver a fully supported and enhanced implementation of the EGL Rich UI technology (formerly called EGL Rich Web) in IBM Rational Business Developer in 4Q 2008. This technology, which currently exists as an IBM alphaWorks® project, helps enable IT organizations to quickly deliver rich Web 2.0-style solutions without needing to learn or program the intricacies of Ajax, Javascript, REST, HTML, or XML. With EGL, organizations have the ability to build complete solutions, including front-end user interfaces and back-end services and business logic using a single language. This ability to combine EGL cross platform integration and service deployment capabilities with EGL Rich UI helps make critical, proven enterprise assets and data available to other organizations, partners, and users in new and more modern ways. Web 2.0-style applications help improve productivity and enable innovative business processes through a more responsive and rich user experience because all logic responsible for presenting, mashing up, and validating information is performed on the client.

For more information, visit

<http://www.ibm.com/software/rational/cafe/community/egl/rui>

IBM also plans to deliver an extension to IBM Rational Business Developer that enables the generation of EGL as COBOL source that can be compiled and deployed to z/VSE™ in 4Q 2008. Code can be deployed as traditional 3270 CICS applications, traditional batch applications, or programs capable of being invoked from an EGL Web front-end or EGL service, which can be deployed on a distributed application server. A runtime component, comparable to IBM Rational COBOL Runtime for zSeries®, provides the required libraries for these programs running in z/VSE. This new offering helps deliver Web 2.0, SOA, and Web solutions for z/VSE.

Product plans referenced in this document may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way. All statements regarding IBM's plans, directions, and intent are subject to change or withdrawal without notice.

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Availability of national languages

Product description	Language	GA date
Rat1 Business Developer v7.5.0	Multilingual (English International, French, Russian, Korean, Chinese - simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, Hungarian, Czech, Italian, Polish)	October 7, 2008

Program number

Program number	VRM	Program name
5724-S49	7.5.0	IBM Rational Business Developer

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

Specified operating environment

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 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:

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 environments require the IBM Rational COBOL Runtime for zSeries V6.0.1 product)
- IBM i5/OS® V5R3 or IBM i operating system 5.4 or later

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 V6.0, or later.
- IBM i5/OS V5R3 or later. Web applications require WebSphere Application Server 6.0, or later, Apache Tomcat 5.5, or later, or the IBM i Integrated Application Server.
- AIX® V5.2. Web application requires WebSphere Application Server V6.0, or later or Apache Tomcat 5.5, or later.
- Windows 2000, 2003, XP. Web application requires WebSphere Application Server V6.0, or later or Apache Tomcat 5.5, or later.
- Linux (Red Hat 3, or higher, SUSE 9). Web application requires WebSphere Application Server V6.0, or later or Apache Tomcat 5.5 or later.
- HP Unix 11iv2. Web application requires WebSphere Application Server V6.0, or later or Apache Tomcat 5.5, or later.
- Solaris 9 or later. Web application requires WebSphere Application Server V6.0, or later or Apache Tomcat 5.5, or later.

Supported relational databases:

- IBM 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 README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

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 (also referred to as 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 (also referred to as Software Maintenance) with each program license 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.

Packaging

- IBM Rational Business Developer Quick Start Guide
- IBM Rational Business Developer License Activation Kit
- IBM Rational Business Developer
- IBM DB2 Enterprise Server Edition V9.5 Restricted Use Activation Kit
- IBM DB2 Express Edition V9.5
- IBM DB2 Connect™ Personal Edition Client V9.5
- IBM 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.

Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit

<http://www-306.ibm.com/software/support/pa.html>

This product is only available via Passport Advantage. It is not available as shrink-wrap.

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-S49	Floating User(s)
IBM Rational Business Developer	5724-S49	Floating User(s)
IBM Rational Business Developer	5724-S49	Authorized User(s)
IBM Rational Business Developer	5724-S49	Authorized User(s)

Charge metrics definitions

Authorized User

Authorized User is the unit of measure by which this program is licensed. An Authorized User is an individual (named or unnamed) within or outside of your enterprise. The program may be installed on one or more computers or servers and accessed by the number of users authorized

by the Proof of Entitlement (PoE). You must have an entitlement for each Authorized User accessing the program or any program component in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means.

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

Rational Business Developer

Part description	Part number
IBM Rational Business Developer	
Ratl Business Developer Authorized User Initl FT Lic+SW Maint 12 Mo	D610BLL
Ratl Business Developer Authorized User Lic+SW Maintenance 12 Mo	D60ZXLL
Ratl Business Developer Authorized User SW Maintenance Annual Renewal	E03SQLL
Ratl Business Developer Authorized User SW Maintenance Reinstatement 12 Mo	D60ZYLL
Ratl Business Developer Authorized User SubSq FT Lic+SW Maint 12 Mo	E03SXLL
Ratl Business Developer Floating User Lic+SW Maintenance 12 Mo	D60ZVLL
Ratl Business Developer Floating User SW Maintenance Annual Renewal	E03SPLL
Ratl Business Developer Floating User SW Maintenance Reinstatement 12 Mo	D60ZWLL

Passport Advantage Trade-up licenses

Rational Business Developer

Precursor product	Trade-up product	Part number
IBM Rational Business Developer VaGen or Informix® 4GL	Ratl Busn Dev Auth User from VaGen or Informix 4GL Trdup Lic+SW Maint 12 Mo	D6112LL
Ratl Bus Dev AuthUsr	Ratl Busn Dev Flt Usr from Ratl Bus Dev Auth Usr Trdup Lic+SW Maint 12 Mo	D6113LL

Passport Advantage supply

Program name/description	Part number
Ratl Business Developer V7.5.0 Ratl Business Developer Red Hat Enterprise Linux ES,Windows XP Family,SUSE	BT05UML

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 V7.5.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Business Developer Authorized User	Ratl Business Developer Red Hat Enterprise Linux ES,Windows XP Family,SUSE	BT05UML
IBM Rational Business Developer Floating User	Ratl Business Developer Red Hat Enterprise Linux ES,Windows XP Family,SUSE	BT05UML
IBM Rational Business Developer for zSeries per Authorized User	Ratl Business Developer Red Hat Enterprise Linux ES,Windows XP Family,SUSE	BT05UML
IBM Rational Business Developer for zSeries per Floating User	Ratl Business Developer Red Hat Enterprise Linux ES,Windows XP Family,SUSE	BT05UML

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.

Rational Business Developer

Part description	Part number
IBM Rational Business Developer Ratl Business Developer zSeries Authorized User Lic+SW Maintenance 12 Mo	D6101LL
Ratl Business Developer zSeries Authorized User SW Maint Annual Renewal	E03SSLL
Ratl Business Developer zSeries Authorized User SW Maint Reinststate 12 Mo	D6102LL
Ratl Business Developer zSeries Floating User Lic+SW Maint 12 Mo	D60ZZLL
Ratl Business Developer zSeries Floating User SW Maint Reinststate 12 Mo	D6100LL
Ratl Business Developer zSeries Floating User SW Maintenance Annual Renewal	E03SRL

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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).

License Information form number(s)

Program name	Program number	Form number
Rational Business Developer	5724-S49	L-KHUY-7H8PAZ

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 applies

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://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 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

Volume orders (IVO)

No

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 shrink-wrap.

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>

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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 (also referred to as 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.

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While your Software Subscription and Support (also referred to as 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://www.ibm.com/support/handbook>

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

System i Software Maintenance applies

No

Educational allowance available

Education allowance does not apply.

Education software allowance does not apply.

Special education prices are available for qualified customers through Passport Advantage.

Prices

Passport Advantage

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

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- Sudan
- Syria

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