



IBM Rational Business Developer V8.0.1 simplifies innovation by enabling multiplatform application development with EGL, an open business application language

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At a glance

IBM® Rational® Business Developer, an integrated development environment for the EGL language, enables IT organizations to build innovative solutions while:

- Improving flexibility and responsiveness to the business
- Reducing costs by improving developer productivity
- Reusing existing, proven assets in new ways

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.

Overview

IBM Rational Business Developer delivers the latest technology tools to support the development, testing, and debugging of EGL applications and services. EGL code compiles into Java, JavaScript, or COBOL code optimized for deployment to a broad variety of application runtime environments, including JEE servers (such as WebSphere®, Apache Tomcat, and IBM i Integrated Application Server) and traditional transactional systems (such as IBM System z®, CICS®, and Information Management System (IMS™) or IBM i).

EGL, an open source business language, is ideal for business-oriented development teams who value ease of learning and high productivity, but need to quickly deliver modern applications and services. EGL supports the needs of business application development by providing the tools and capabilities to deploy applications and services to a wide variety of platforms and operating environments. 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.

IBM recognizes that the construction of cross-platform, web-based, and service-oriented solutions 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.

Key prerequisites

For details, refer to the [Hardware requirements](#) and the [Software requirements](#) sections.

Planned availability date

December 3, 2010, electronic availability

December 10, 2010, media availability

Description

Overview of EGL

EGL is a modern, open, declarative-style programming language that is designed for building next-generation business applications. The primary goal of EGL is to speed development of powerful, modern applications. A secondary goal is to shield developers from the intricacies of modern application development. To enable the broadest platform and environment support, EGL code is compiled into Java, COBOL, and JavaScript. Developers are not expected to view, maintain, or debug this generated code. The generated Java code can run on many platforms, and generated COBOL code can run on System z (under CICS or IBM IMS) on IBM i. This flexibility gives you the freedom to more easily run code on the platforms of your choice. It also helps future-proof applications by enabling one choice today while keeping future options open and available for tomorrow.

EGL Rich UI enables the creation of standard JavaScript-based applications, without needing to learn Ajax, JavaScript, SOAP, representational state transfer, and the other complex technologies typically required to build these solutions. This is critical for businesses that have a set of traditional developers (that understand the business), but need to build modern Web 2.0-style user interfaces.

EGL is now open source and developed on Eclipse.org under the EGL Development Tools Project. The EGL language, compiler, and a subset of generators and tools are developed under the project, thus ensuring complete and open access to the EGL technology. The goal of the project is to broaden adoption of the technology and allow other developers and vendors to extend and enhance the EGL language, runtime, and tool components. More information about the project can be found at

<http://www.eclipse.org/proposals/egl>

Overview of IBM Rational Business Developer

IBM Rational Business Developer provides a comprehensive and powerful development workbench for the EGL language. IBM Rational Business Developer provides the tools to develop, test, debug, build, and deploy EGL applications. These tools work seamlessly with the surrounding Eclipse-based toolset to provide a seamless development experience for all types of application development. 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 (RIAs): With EGL Rich UI, organizations have the tools to build rich, responsive client-based applications that access web services.
- 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.

With IBM Rational Business Developer, business developers can now develop rich, modern Web 2.0-style applications. The industry-wide adoption of Web 2.0 is changing the way people use and exchange information and how businesses operate on the web today. With Web 2.0, business can deliver external and internal solutions by modernizing and extending existing assets in innovative ways, while harvesting services dispersed across the Internet. To deal with the challenges of building these rich, browser-based applications, Web 2.0 technologies are based on simpler programming models. Those techniques accelerate time to market by improving the consumption of existing enterprise assets. Web 2.0 is all about using the Internet creatively, as a platform to foster innovation, speed, and simplicity.

New in Version 8.0.1

New capabilities and enhancements delivered in IBM Rational Business Developer V8.0.1:

Improved usability when developing Web 2.0 UIs with Rich UI Visual Editor

- Improved visual feedback as user is dropping new widgets and moving existing widgets.
- Introduced new grid-oriented layout widget, which allows for more precise placement of widgets.
- Improved performance when adding new widgets and changing widget settings.
- Use of Mozilla-based browser for visual editor canvas improves performance and decreases memory usage.

New tools for quickly creating UI forms and grids

- New wizard creates UI data entry forms and data grids from existing record definitions

Enhanced widgets and support for Dojo Toolkit 1.5

- Improved data grid widget supports sorting, pagination, selection, row checking, column-level customization, support for cell editing, and more.
- Support for building modern, rich Web 2.0 UIs with widgets from the open source Dojo Toolkit, including date/time pickers, graphs, currency, and other input widgets (with built-in validation), tab and accordion containers, tree views, and more.
- Improved application styling with new Claro widget theme.

New tools to simplify integration of existing RESTful Web Services

- New wizard creates EGL records from existing XML, JSON, or XML Schema.

- New support for calling XML-based web services from EGL services deployed to Java environments.
- Support for serialization of EGL records to and from XML in code deployed to Java environments.

Improved generation and deployment capabilities

- Enhanced support to generate the same EGL part to multiple languages.
- Code generation now occurs on save for both Java and JavaScript targets (can be enabled for COBOL).
- Generation of debug code occurs automatically: Rich UI developers are no longer required to switch between workspace development and deployment mode.
- Improved usability of build descriptor debug and target configuration panels.

Improved web services development support

- Services can be tested without deploying to an application server.
- Support for automatic deployment and configuration of services invoked from a Rich UI (referred to as *dedicated services*).

Enhancements to integrated debugger and test facility

- New option to enable suspension on first line of initial program, first line of called program, or first line of transferred to programs
- Support for creating a breakpoint on a line with a condition, where execution only stops if the condition evaluates to true
- Support for creating a global breakpoint (not on a specific line) with a condition, where execution only stops if the condition evaluates to true
- Automatic prompting for database and remote system credentials during debug if no credentials have been specified previously or if the specified credentials are invalid.

Other enhancements

- Text reporting support added to EGL-generated COBOL applications

Availability of national languages

Product description	Language	GA date
Rat1 Business Developer v8.0.1	Multilingual (French, Russian, Arabic, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, Hungarian, English, Czech, Italian, Polish)	December 10, 2010

Program number

Program number	VRM	Program name
5724-S50	8.0.1	IBM Rational Business Developer

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

<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: Intel® Pentium® III 800 MHz minimum
- Memory: 2 GB RAM minimum, 3 GB recommended.
- Disk space: Minimum 1 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 minimum, 1280 x 1024 recommended.
- Other hardware: Microsoft® mouse or compatible pointing device.

Software requirements

Operating systems

- Microsoft Windows XP Professional
- Microsoft Windows Server 2003 Standard / Enterprise
- Microsoft Vista (Business, Enterprise, Ultimate editions)
- Microsoft Windows 2008 Standard / Enterprise
- Microsoft Windows Server 2008 R2
- Microsoft Windows 7 (Enterprise, Ultimate, Professional)
- Red Hat Enterprise Linux Workstation V4.0, V5.0
- Red Hat Enterprise Linux Desktop V4.0, V5.0
- SUSE Linux Enterprise Server V9, V10
- The VisualAge® Generator migration tool requires Microsoft Windows XP

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

IBM System z:

- z/OS® V1.9, or later
- CICS Transaction Server for z/OS V3.1, or later
 - For Channel/Container support from remote ECI client calls, Version 3.2 is required.
- IMS Transaction Manager V9, or later

Note: Programs deployed to System z require the IBM Rational COBOL Runtime for zSeries® V6.0.1 product and Enterprise COBOL V3.4, or later. Execution may be possible on earlier versions of z/OS, CICS, and IMS, but these are not officially supported.

IBM i:

- IBM i5/OS® V5R3 or IBM i operating system V5R4, 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 V6.1, or later.
- IBM i5/OS V5R3, or later. Web applications require WebSphere Application Server 6.1, or later, Apache Tomcat 6.0, or later, or the IBM i Integrated Application Server.
- AIX® V5.2. Web application requires WebSphere Application Server V6.1, or later, or Apache Tomcat 6.0, or later.
- Windows 2000, 2003, XP, 2008, Vista. Web application requires WebSphere Application Server V6.1, or later, or Apache Tomcat 6.0, or later.
- Linux (Red Hat 3, or later, SUSE 9.0). Web application requires WebSphere Application Server V6.1, or later, or Apache Tomcat 6.0, or later.
- HP UX 11i v2. Web application requires WebSphere Application Server V6.1, or later, or Apache Tomcat 6.0, or later.
- Solaris 9, or later. Web application requires WebSphere Application Server V6.1, or later, or Apache Tomcat 6.0, or later.
- Java/JRE 5.0 (or 1.5) or later, is required in all supported environments.

Supported databases:

- IBM DB2® V8, and later
- IDS 7.3, and later

- Oracle 8, and later
- Microsoft SQL Server 2000 and 2005
- Derby 10, and later

Supported web browsers:

- Firefox 3.0, and later
- Microsoft Internet Explorer 6.0, and later
- Safari 4 and 5
- Google Chrome

For the latest information on hardware and software requirements, visit

<http://www.ibm.com/software/awdtools/developer/business/sysreq>

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 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 with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

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.

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	Per Floating User
IBM Rational Business Developer	5724-S50	Per Floating User for System Z

IBM Rational Business Developer	5724-S50	Per Authorized User
IBM Rational Business Developer	5724-S50	Per Authorized User for System Z

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

IBM Rational Business Developer

Part description	Part number
IBM Rational Business Developer Ratl Business Developer Per Authorized User Annual SW S&S Rnw1	E03SULL
Ratl Business Developer Per Authorized User Initl FT Lic+S&S 12 Mo	D610CLL
Ratl Business Developer Per Authorized User Lic + SW S&S 12 Mo	D6105LL
Ratl Business Developer Per Authorized User SW S&S Reinstate 12 Mo	D6106LL
Ratl Business Developer Per Authorized User Subsq FT Lic+S&S 12 Mo	E03SYLL
Ratl Business Developer Per Floating User Annual SW S&S Rnw1	E03STLL
Ratl Business Developer Per Floating User Initl FT Lic+S&S 12 Mo	D0BJ6LL
Ratl Business Developer Per Floating User Lic + SW S&S 12 Mo	D6103LL
Ratl Business Developer Per Floating User SW S&S Reinstate 12 Mo	D6104LL
Ratl Business Developer Per Floating User Subsq FT Lic+S&S 12 Mo	E0823LL

Passport Advantage Trade-up licenses

IBM Rational Business Developer

Precursor product	Trade-up product	Part number
IBM Rational Business Developer VaGen or Informix® 4GL	Ratl Bus Dev AthUsr from VAGEN or Informix 4GL Trdup Lic + SW S&S 12 Mo	D6114LL
Ratl Business Developer Authorized User(s)	Ratl Bus Dev FltUsr fr Ratl Bus Dev Ext AthUsr Trdup Lic + SW S&S 12 Mo	D6115LL

Passport Advantage supply

Program name/description	Part number
Ratl Business Developer V8.0.1 IBM Rational Business Developer V8.0.1 Media Pack	BT0DNML

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.

Rational Business Developer V8.0.1

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Business Developer Authorized User	IBM Rational Business Developer V8.0.1 Media Pack	BT0DNML
IBM Rational Business Developer Floating User	IBM Rational Business Developer V8.0.1 Media Pack	BT0DNML
IBM Rational Business Developer for System z per Authorized User	IBM Rational Business Developer V8.0.1 Media Pack	BT0DNML
IBM Rational Business Developer for System z per Floating User	IBM Rational Business Developer V8.0.1 Media Pack	BT0DNML

Cross-platform products

Cross-platform product for use on System z

Order the part numbers that follow when the product is used for either the development of code that will be deployed on System z servers or when the product will be communicating or transferring data between a distributed server and a System z server. Otherwise, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement

IBM Rational Business Developer

Part description	Part number
IBM Rational Business Developer Ratl Business Developer Per Auth.User for System z Annual SW S&S Rnw1	E03SWLL
Ratl Business Developer Per Auth.User for System z Initl FT Lic+S&S 12 Mo	D0BJ8LL
Ratl Business Developer Per Auth.User for System z Lic + SW S&S 12 Mo	D6109LL
Ratl Business Developer Per Auth.User for System z SW S&S Reinstate 12 Mo	D610ALL
Ratl Business Developer Per Auth.User for System z Subsq FT Lic+S&S 12 Mo	E0825LL
Ratl Business Developer Per Float.User for System z Annual SW S&S Rnw1	E03SVLL
Ratl Business Developer Per Float.User for System z Initl FT Lic+S&S 12 Mo	D0BJ7LL
Ratl Business Developer Per Float.User for System z Lic + SW S&S 12 Mo	D6107LL
Ratl Business Developer Per Float.User for System z SW S&S Reinstate 12 Mo	D6108LL
Ratl Business Developer Per Float.User for System z Subsq FT Lic+S&S 12 Mo	E0824LL

Cross-platform product for use on System z IFL engines

Order the part numbers that follow when the product is intended to run on the Linux operating system on System z IFL engines. If the product is not intended to run on the Linux operating system on System z IFL engines, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set in this announcement.

Withdrawal of previous Passport Advantage part numbers

Effective December 10, 2010, IBM will withdraw from marketing the following products licensed under the IBM International Program License Agreement. A replacement product and availability date is listed if one is available.

Withdrawn products		Replacement products		Availability date
Part number	Product name	Part number	Product name	
5724-S50	IBM Rational Business Developer V7.1.0			
BT04BML	Rational Business Developer Windows 2000, Windows Vista Business, SUSE Linux Ent	BT0DNML	IBM Rational Business Developer V8.0.1 Media Pack	December 10, 2010
		BT05VML	IBM Rational Business Developer Version 7.5.1 Media Pack	December 10, 2010

Orders for these part numbers will not be accepted after the stated effective date of withdrawal, nor will normal marketing activities or educational support be available unless previous agreement exists between the customer and IBM.

Terms and conditions

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

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

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

Program name	Program number	Form number
IBM Rational Business Developer	5724-S50	L-LLAR-8AFQ4J/ L-LLAR-8AFQHD

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

Technical support of a program product version or release 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 (modifications or fixes), 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

For clarification, note that 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.

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Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

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

Usage restrictions

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 website

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

System i Software Maintenance applies

No

Educational allowance available

Not applicable.

Prices

For all local charges, contact your IBM representative.

Passport Advantage

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<http://www.ibm.com/partnerworld/sg/apchannounce/>

AP distribution

Country/Region	Announced
AP IOT	
ASEAN*	Yes
India/South Asia**	Yes
Australia	Yes
People's Republic of China	Yes
Hong Kong S.A.R. of the PRC	Yes
Macao S.A.R. of the PRC	Yes
Taiwan	Yes
Korea	Yes
New Zealand	Yes
Japan IOT	
Japan	Yes

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