

# IBM Business Developer 9.7 delivers Enterprise Generation Language Rich User Interface modernization, Enterprise Generation Language for cloud capabilities, and user productivity enhancements

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## Overview

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IBM<sup>(R)</sup> Rational<sup>(R)</sup> Business Developer 9.7 and its Enterprise Generation Language (EGL) programming language enables business-oriented programmers to leverage the benefits and technology of Java<sup>TM</sup>, J2EE, browser platforms, IBM i, and IBM Z<sup>(R)</sup> without having to learn all the underlying technologies. Paired with powerful capabilities to support cross-platform development, it is designed to hide the technical details of the deployment platform and associated middleware programming interfaces. These enable developers to focus on the business problem rather than the underlying implementation technologies to develop modern EGL applications that include cloud support.

Rational Business Developer 9.7 enhancements:

- Can develop modern responsive web applications with modernized Rich User Interface (UI) and automated Rich UI generation support
- Compatible with latest corequisite and prerequisite products
- Can generate and deploy EGL applications for the cloud

It comes with a drag-and-drop feature for services and automated Rich UI generation that uses the EGL Data Access Application wizard for quicker UI development and faster time to market.

With Rational Business Developer, organizations can create EGL applications for the cloud, deploy them on the cloud, and create EGL microservices by integrating with IBM MQ.

Rational Business Developer 9.6 supports IBM CICS<sup>(R)</sup> applications as a consumer of REST services. In 9.7, CICS applications can also be providers of REST APIs. This results in a powerful solution for the use of EGL-based applications in modern application architectures.

With Rational Business Developer 9.7, organizations can accomplish the following:

- Create documentation for REST APIs with OpenAPI 2.0 and 3.0 support
- Use GitHub as a source code repository for EGL applications with Git support

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## Key requirements

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For details, see the [Software requirements](#) section.

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## Planned availability date

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June 16, 2022

Availability within a country is subject to local legal requirements.

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## Description

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Rational Business Developer 9.7 delivers functions that are derived from an iterative design thinking initiative. The requirements represent the real and relevant capabilities of rapid business application development using EGL. The goal is to reduce the learning curve for business developers and to let them to focus on business problems rather than having them learn technology and frameworks.

Rational Business Developer 9.7 adopts a design thinking principle that includes users and starts from roadmap discussions through the development cycle. With Rational Business Developer, organizations get the following:

- Consistent and regular feedback from users to meet the organization's needs
- Can develop modern, responsive web applications with modernized Rich UI and automated Rich UI generation support
- Can generate and deploy EGL applications for the cloud and use MQ integration to create EGL microservices
- Can integrate with the latest versions of compatible products
- Ability to create and consume REST APIs in CICS environment using EGL applications
- Uses JSON parse and JSON generate support for Power<sup>®</sup> Systems
- Uses GitHub as SCM tool for EGL projects
- Uses OpenAPI 2.0 or 3.0 to create impactful documentation for EGL REST APIs so that they can be consumed by third-party applications

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### Accessibility by people with disabilities

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Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the [IBM Accessibility Conformance Reports](#) website.

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## Statement of general direction

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Oracle JDK for Mac has an announced end of support (EoS) in 2025. IBM intends to remove Rational Business Developer 9.7 Mac support at that time.

Statements by IBM regarding its plans, directions, and intent are subject to change or withdrawal without notice at the sole discretion of IBM. Information regarding potential future products is intended to outline general product direction and should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for IBM products remain at the sole discretion of IBM.

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## Reference information

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For more information about IBM Rational Business Developer, see Software Announcement [JP19-0525](#), dated October 22, 2019.

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## Program number

| Program number | VRM   | Program name                    |
|----------------|-------|---------------------------------|
| 5724-S50       | 9.7.0 | IBM Rational Business Developer |

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## Offering Information

Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage<sup>\(R\)</sup>](#) and [Passport Advantage Express](#) website.

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## Publications

Technical documentation for Rational Business Developer can be found in [IBM Documentation](#).

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## Services

### IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Systems Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Systems Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Systems Lab Services is designed to help clients solve business challenges, gain new skills, and apply best practices.

Systems Lab Services offers a wide range of infrastructure services for IBM Power<sup>(R)</sup> servers, IBM Storage systems, IBM Z, and IBM LinuxONE. Systems Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at [ibmsls@us.ibm.com](mailto:ibmsls@us.ibm.com).

To learn more, see the [IBM Systems Lab Services](#) website.

### IBM Consulting<sup>TM</sup>

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business partner to help accelerate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research<sup>(R)</sup> and IBM Watson<sup>(R)</sup> AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

### **IBM Technology Support Services (TSS)**

Get preventive maintenance, onsite and remote support, and gain actionable insights into critical business applications and IT systems. Speed developer innovation with support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and OEMs, including servers, storage, network, appliances, and software, to help clients ensure high availability across their data center and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

### **IBM Expert Labs**

Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs' deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables them to deliver First of a Kind implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

### **IBM Security<sup>(R)</sup> Expert Labs**

With extensive consultative expertise on IBM Security software solutions, Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Security Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions, including critical strategies such as zero trust. Remote and on-premises software deployment assistance is available for IBM Cloud Pak<sup>(R)</sup> for Security, IBM Security QRadar<sup>(R)</sup>/QRoC, IBM Security SOAR/Resilient<sup>(R)</sup>, IBM i2<sup>(R)</sup>, IBM Security Verify, IBM Security Guardium<sup>(R)</sup>, and IBM Security MaaS360<sup>(R)</sup>.

For more information, contact Security Expert Labs at [sel@us.ibm.com](mailto:sel@us.ibm.com).

For additional information, see the [IBM Security Expert Labs](#) website.

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## **Technical information**

### **Specified operating environment**

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#### **Software requirements**

For software requirements, see the [Software Product Compatibility Reports](#) website.

If you use IBM WebSphere<sup>(R)</sup> Application Server Liberty and WebSphere Application Server for development:

- See the [IBM Support](#) website and download the latest version of WebSphere Application Server Liberty runtime to continue to receive support for development environments
- See the [IBM Blog](#) web page and download WebSphere Application Server traditional runtime to continue to receive support for development environments

Business Developer 9.7 delivers Dojo 1.15 (open-source variant) of Dojo technology.

IBM Dojo 1.10 is no longer supported. Clients can continue to use the deprecated Dojo 1.10 if using Bidi Dojo widgets.

### **IBM Support**

[IBM Support](#) is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the [IBM Support Insider](#).

### **Additional IBM support**

#### **IBM Client Engineering for Systems**

Client Engineering for Systems is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with Client Engineering for Systems, you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. Client Engineering for Systems has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. Contact Client Engineering for Systems at [sysgarage@ibm.com](mailto:sysgarage@ibm.com).

### **Planning information**

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#### **Packaging**

This offering is delivered through the internet as an electronic download. There is no physical media.

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### **Ordering information**

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For ordering information, consult your IBM representative or IBM Business Partner, or go to the [Passport Advantage](#) website.

These programs are available only through Passport Advantage.

These programs may only be sold directly by IBM or by IBM authorized Business Partners.

To locate IBM Business Partners in your geography, see the [Find a Business Partner](#) page.

#### **Passport Advantage**

There is no new ordering information in this release.

#### **Charge metric**

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Charge metric information can be found in the corresponding License Information document.

| Program number | License Information document title                | License Information document number |
|----------------|---|-------------------------------------|
| 5724-S50       | IBM Rational Business Developer                   | <a href="#">L-MEMS-CBN3YR</a>       |
|                | IBM Rational Business Developer Extension for VSE | <a href="#">L-MEMS-CBN3UE</a>       |

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

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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.

This product is available only through Passport Advantage.

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### License Information number

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| Program number | License Information document title                | License Information document number |
|----------------|---|-------------------------------------|
| 5724-S50       | IBM Rational Business Developer                   | <a href="#">L-MEMS-CBN3YR</a>       |
|                | IBM Rational Business Developer Extension for VSE | <a href="#">L-MEMS-CBN3UE</a>       |

Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

### Limited warranty applies

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Yes

## **Limited warranty**

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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.

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

## **Program technical support**

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### **Enhanced support**

Technical support of a program product version or release will be available for a minimum of five years from the planned availability date, as long as your Software Subscription and Support is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an 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.

For additional information on the IBM Software Support Lifecycle Policies, see the [Standard and enhanced IBM support lifecycle policies](#) website.

## **Money-back guarantee**

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If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

## **Volume orders (IVO)**

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No

## **Passport Advantage applies**

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Yes. Information is available on the [Passport Advantage and Passport Advantage Express](#) website.

## **Software Subscription and Support applies**

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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 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.

While your Software Subscription and Support 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 by telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, see the [IBM Support Guide](#). Software Subscription and Support 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.

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For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.

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**Variable charges apply**

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No

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**Educational allowance available**

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Not applicable

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**Statement of good security practices**

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IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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**Prices**

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For all local charges, contact your local IBM representative or IBM Business Partner.

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If you are an IBM Business Partner acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBMid and password are required to access the [IBM Passport Advantage](#) or [IBM PartnerWorld<sup>\(R\)</sup>](#) website.

### **Passport Advantage**

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[IBM Japan](#)