



# IBM Rational Developer for System z V7.6 supports CICS V4.1 and IMS V11 while helping make composite application development faster, more efficient, and less costly

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## At a glance

With IBM® Rational® Developer for System z® V7.6, developers can accelerate the development of:

- Service oriented architecture (SOA), including services deployable to CICS®, IMS™, WebSphere® Application Server, and DB2® Stored Procedure environments
- Dynamic Web applications and front ends including HTML, EGL Web UI, EGL Rich UI, Java™ Server Faces (JSF), Java Server Pages (JSP), Java, and Java Enterprise Edition
- COBOL, PL/I, C++, assembler, and Java applications that can be deployed to z/OS®, CICS, IMS, batch, UNIX® System Services, and DB2 Stored Procedure-based environments
- COBOL and PL/I application that can be deployed to Microsoft® Windows® environments
- Mainframe applications with enhanced analysis via integration with IBM Problem Determination tools and integration with software life-cycle tools such as source code management systems

## Overview

IBM Rational Developer for System z V7.6 enables companies to accelerate time to market with higher quality solutions while reducing the costs of maintenance over an application's lifetime. IBM Rational Developer for System z positions businesses to design and construct traditional mainframe applications, Web applications, and integrated service oriented architecture (SOA)-based composites quickly and efficiently. It helps companies enhance existing and create new applications in a more productive manner, with a focus on COBOL, PL/I, C, C++, High-Level Assembler, JCL, REXX™, and Java.

IBM Rational Developer for System z uses industry standards to simplify the development of rich client interfaces, Web user interfaces, traditional terminal interfaces, and back-end, business logic deployable to CICS, IMS, DB2, Batch, UNIX System Services, and WebSphere transactional environments. IBM Rational Developer for System z integrates with existing System z development processes, including problem determination and System z source management systems.

When IBM Rational Developer for System z is used with the IBM Software Development Platform, developers can extend processing to meet a broad range of requirements, including change management and testing functions, usable directly from the IBM Rational Developer for System z desktop. IBM Rational Developer for System z V7.6 offers two product choices providing additional flexibility.

The IBM Rational Developer for System z V7.6 offerings are the follow-on replacement product for WebSphere Studio Enterprise Developer V5, WebSphere Developer for zSeries® V6, WebSphere Developer for System z V7.0, IBM Rational Developer for System z V7.1, and IBM Rational Developer for System z V7.5.

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## Key prerequisites

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

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## Planned availability date

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- October 8, 2009 (electronic software delivery)
- October 15, 2009 (media and documentation)

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## Description

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When IBM Rational Developer for System z is used with the IBM Software Development Platform, developers can extend processing to meet a broad range of requirements addressing SOA applications and integrated life-cycle management directly from IBM Rational Developer for System z.

For the V7.6, IBM Rational Developer for System z offers 2 product choices for greater choice, consumability, and flexibility:

### **IBM Rational Developer for System z with EGL**

IBM Rational Developer for System z with EGL provides a single development environment for modern System z application developers. IBM Rational Developer for System z with EGL allows developers to create traditional System z CICS, IMS, DB2, and Batch applications and connect them to Web 2.0 front-end applications using EGL.

The development environment includes tools for creating and maintaining traditional System z applications and transactional processing, System z Web services, as well as lightweight Web 2.0 UI development using EGL. IBM Rational Developer for System z with EGL helps to increase developer productivity by delivering integrated, high-quality code while working within the organizations development processes, tools, and philosophy.

IBM Rational Developer for System z with EGL also helps to make learning the mainframe environment easier for developers new to the platform by offering easily accessible tools and wizards to assist in difficult and complex operations.

### **IBM Rational Developer for System z with Java**

IBM Rational Developer for System z with Java provides a single development environment for heterogeneous enterprise application development with workloads spanning System z runtimes such as CICS, IMS, DB2, and Batch, as well as, WebSphere Application Server environments.

The development environment includes tools for creating and maintaining traditional System z applications and transactional processing, System z Web services, Web 2.0 applications, and Java Enterprise Edition applications running in WebSphere Application Server. IBM Rational Developer for System z with Java helps to increase

developer productivity by delivering integrated, high-quality code while working within the organizations development processes, tools, and philosophy.

IBM Rational Developer for System z with Java also helps to make learning the mainframe environment easier for developers new to the platform by offering easily accessible tools and wizards to assist in difficult and complex operations.

Each of the product choices described includes the same set of System z application development tools, but enhanced with additional new functionality as described in the following text. The core System z application development tools include key capabilities for improving the productivity of your System z application developers, including:

*CICS, IMS, DB2, Batch, AIX®, Linux® for System z, x86 Linux, and z/OS UNIX development*

- Development and maintenance tools for z/OS (COBOL, PL/I, C, C++, Java, High-Level Assembler) applications and Microsoft Windows (COBOL, PL/I) applications, as well as access to AIX file systems, z/OS, Linux for System z, x86 Linux Servers, and z/OS UNIX file systems, submitting z/OS jobs, monitoring z/OS Job execution queues, and debugging artifacts after access
- Visually configurable editor and statement assisted creation, and verification of syntax for COBOL, PL/I, C, C++, High-Level Assembler, and Java languages
- Tooling to develop, test, and deploy Web services to CICS, and IMS environments

*Integrated life-cycle development*

- Tooling to collaborate and share both distributed and System z assets across the team using built-in IBM Rational Team Concert for System z, IBM Rational ClearCase® version control, IBM Software Configuration and Library Management (SCLM) Toolkit, CA Endeavor Software Change Manager, or supplied frameworks for integrating with other source code management systems
- Access to customized JCL or TSO commands from the workstation to take advantage of existing System z tools in use on the mainframe
- Ability to adapt and extend the development environment with Eclipse-based plugins to match developer needs
- Drag-and-drop components to quickly build and deploy interactive reports
- Use Host Access Transformation functions that:
  - Support Host Access Transformation Services (HATS) development.
  - Note. Customers must purchase independent HATS licenses for deployment
  - Provide integrated, rich client access for IBM Rational Developer for System z licensed developers with TSO/ISPF access through a powerful GUI front-end.
- Integration with IBM Debug Tool for performing cross-platform and multi-language debugging of WAS and System z applications
- Ability to browse and update VSAM dataset content on System z using IBM File Manager Integration
- Integration with IBM Fault Analyzer provides accesses to problem reports for diagnosing mainframe application faults

**Note:** For more information on the IBM Problem Determination Tools (Debug Tool, File Manager, Fault Analyzer, Application Performance Analyzer) V10.1, refer to Software Announcement [209-307](#), dated October 6, 2009.

*Enterprise Service Tools*

Enterprise Service Tools is an integrated perspective that assists a Web service developer in the following tasks:

- Creating a CICS Web service that uses a new or existing CICS application as its application component
- Creating a IMS SOAP Gateway Web service that uses a new or existing IMS application as its application component

- Creating a Web service that is not runtime-specific from a new or existing application
- Using the System z Database Application Generator to create a COBOL CICS application that accesses a z/OS DB2 database
- Developing a comprehensive Web service that collects and processes data from multiple sources, including CICS non-terminal applications, CICS terminal applications, and Web services

#### *CICS Service Flow Feature*

The Service Flow feature allows you to develop a comprehensive Web service that collects and processes data from multiple sources, such as programs, screens, databases, and Web service invocable processing. A specific Service Flow project is included in the Enterprise Service tooling to facilitate service flow creation.

The CICS Service Flow runtime option (included in CICS Service Flow Feature) must be installed to run a Service Flow project in CICS Transaction Server (CICS TS) V3.1, V3.2, or V4.1. Certain functionality, for example channel and container access, requires Service Flow Runtime V3.2 or V4.1.

The base capabilities provided by CICS TS to access CICS application interfaces extend to capabilities such as:

- Web services
- Link3270 Bridge
- Distributed Program Link (DPL)
- WebSphere MQ Adapter
- Front End Programming Interface (FEPI)

The CICS Service Flow Runtime exploits these capabilities when generating the CICS business service function to provide the implementation needed to reuse the existing CICS applications as components in the CICS business service flow.

For more information on the CICS Service Flow Feature, refer to Software Announcement [205-303](#), dated November 22, 2005, for V3.1 and Software Announcement [207-051](#), dated March 27, 2007, for V3.2.

#### *CICS Service Component Architecture*

To make it easier to publish and use CICS applications in a service oriented application, CICS TS V4.1 provides infrastructure and run-time support for deploying and managing application components. These components provide a common programming interface for service invocation, and a service description that is compliant with the SCA. IBM Rational Developer for System z provides tooling to assist in modeling, generating, configuring, and deploying the components to the CICS V4.1 environment.

The SCA capability provided by CICS TS gives customers investigating their own component architecture solutions the opportunity to exploit the CICS infrastructure instead, reducing their maintenance costs and potentially providing a richer more flexible solution. For customers that have not yet embarked on a SCA strategy, this capability provides both a low cost of entry option to doing so and a benefit from the CICS tooling enhancements built on top of the component architecture.

For more information on the CICS SCA, refer to Software Announcement [209-135](#), dated April 28, 2009, for CICS TS V4.1.

#### **New in V7.6**

A host of significant new functions and feature enhancements in V7.6 build on an already comprehensive set of features. They support the following capabilities:

System configuration, performance, and consumability

- The IBM Rational Developer for System z client and host components have been enhanced for performance, decreasing editing content assist dialog time by up to 80%, decreasing source code download/upload time by up to 35%, and speeding real-time syntax check in some code situations by orders of magnitude.
- The client installation has been reworked to eliminate or simplifying un-needed components or providing more installation options resulting in a 25% decrease in the traditional developer scenario install size. This results in much smaller hardware requirements for users both on and off the host lowering hardware costs for customers as well as making the environment simpler.
- The Host installation and configuration process is simplified to reduce the amount of time taken to install, configure, or upgrade the product after initial purchase. New installation cookbooks have been included to help provide a checklist for mainframe installers.
- The IBM Rational Developer for System z installation panels have been refined to allow users to choose just the portions of the package they feel are needed to reduce install size and visual clutter on the developer interface.
- The File Manager integration host-resource requirements are reduced when used in combination with IBM File Manager V10.1, to allow greater scalability where more users can access data on the host concurrently.
- The IBM Rational Developer for System z infocenter has been decoupled from the IBM Rational Developer for System z client installation using a facility called IBM Rational "Remote Help." Remote help allows the IBM Rational Developer for System z infocenter to be sourced from ibm.com®, downloaded to a common server in the client environment, or integrated into the IBM Rational Developer for System z workbench on the PC. Remote help aids in reducing the IBM Rational Developer for System z footprint on the client as well as provide a centralized location for easy documentation updates and rollout of new documentation. This feature helps to deliver new documentation updates to IBM Rational Developer for System z users faster outside of the typical iFix process.
- Support for smartcard security login on the IBM Rational Developer for System z host components is included.

#### *Core z/OS development in support of CICS V4.1 and IMS V11*

##### New support for CICS V4.1

- Existing IBM Rational Developer for System z users can use the same functions they work with today automatically enabled with support for new CICS V4.1 verbs in syntax check, content assist, and unit build.
- Support for new CICS modernization architectures such as Service Component Architecture, Event Processing, and application bundle deployment via CICS Explorer, described in detail in later sections.

##### New support for IMS V11

- Over 71 IMS code generation wizards to help new users create IMS processing in COBOL programs, including traditional DL/1 processing as well as new capabilities such as ICAL execution
- Support for new IMS Web services and RESTful service capabilities

##### General new functionality in support of either runtime:

- Manageable property groups of build/syntax check properties can be easily created and applied to separate z/OS projects. This simplifies the tedious process of setting up and determining which properties apply to which z/OS application projects.
  - The usability of property groups has improved via the use of an editor dialog rather than a wizard dialog. This allows you to view property groups and source code side-by-side allowing editing of both concurrently.
  - The property group editor includes new validation logic to help developers locate missing information, missing datasets, or improperly formatted inputs.
- Support for Generation Data Group (GDG) Datasets from the IBM Rational Developer for System z Remote Systems Explorer.

- Expanded alternative include syntax in COBOL and PL/I, specifically, the support - INC and ++INCLUDE verbs as if they were copy statements.
- A new API is included for customers who have developed custom pre-processors. Pre-processors can now be called from a local syntax check operation so that customized development processes can be handled in the local environment as well as the remote environment. Multiple pre-processors can be configured for execution in sequence.
- The compare view now allows updates to the content being compared. This is an improvement over the read-only compare editor previously offered. The compare editor also can now enforce LRecl and Record format rules for the datasets or members under comparison.
- Job resubmit (sj) support, editing a completed job for re-execution, from the editor as well as Remote Systems Explorer.
- Refreshing of active (executing) job spool contents.
- Several smaller enhancements -- Added to the LPEX editing environment such as:
  - Enhanced support for COBOL copy-replace verbs and copybook resolution
  - HEX editing support in the editor
  - Identification of non-round tripping code-page conversion characters inline in the edit session to speed conversion error resolution.

#### *Next-generation development environment for COBOL*

The COBOL editor has been enhanced to add capabilities such as:

- More robust syntax-check -- This increases productivity by notifying developers immediately when syntax errors occur, eliminating the need for developers to submit syntax check options as often.
- New support for syntax-check as you type for CICS (EXEC CICS) and DB2 (EXEC SQL).
- A refactoring engine offering intelligent wizards to perform code changes, including the ability to preview and approve changes, such as:
  - Data-element renaming. Data -- Element renaming saves time and offers better reliability over simplistic find-replace.
  - Remove Noise Words -- Cleans the COBOL program syntax to remove un-need and outdated verbs.
- Editor link-ability that assists with easily finding and jumping to other elements in your applications. For example, while working on a COBOL data item you may click the "open declaration" action to jump to the working storage definition of the item, even opening a copybook in an editor, if necessary.
- The COBOL editor now remembers where you make code changes and allows you to jump forward and back between code changes using the "forward" and "back" buttons to easily navigate change history in edit sessions or even across edit sessions. For example, using the back button to return to a COBOL program after making a change in a copybook.
- New data-rich code analysis views that include searchable displays series of perform statements.
- Editor tooltips show variable structures. However the cursor over a data item and a popup will show the storage structure, even if the storage definition is in a copybook.

#### *Next-generation development environment for PL/I*

The PL/I editor has been enhanced to add capabilities such as:

- Syntax-Check as you type -- This increases productivity by notifying developers immediately when syntax errors occur, eliminating the need for developers to submit syntax check options as often.
- Editor link-ability that assists with easily finding and jumping to other elements in your applications. For example, while working on a PL/I data item you may click the "open declaration" action to jump to the working storage definition of the item, even opening a copybook in an editor, if necessary.

## *COBOL design and development using UML*

UML profiles for COBOL applications are included in the IBM Rational Developer for System z media. UML designers can:

- Use the COBOL profiles in IBM Rational Software Architect to take generic UML class diagrams and activity diagrams and transform them to COBOL-specific application specifications.
- Feed UML models into IBM Rational Developer for System z where they can be transformed into COBOL programs, copybooks, data definitions, and application logic.

This capability helps speed application design to initial implementation as well as providing application documentation for better communications between teams.

## *SOA, Web services, and RESTful services*

Several Enterprise Service Tools usability enhancements are added to simplify and improve the Web service development experience. The Service Flow modeler has included over a dozen usability enhancements spanning from simplified screen-flow recording to integrated deployment. The single-service wizards have been updated to include first-class meet-in-the-middle support, including new wizards and walkthroughs to help developers with all service development scenarios.

There are also Web service creation enhancements including support for:

- Multi-segment messages in IMS Web services
- Multi-container messages in CICS
- Meet-in-the-middle mapping for XML attributes
- CICS PL/I top-down code creation
- CICS MTOM messages, a typical services model when a DataPower® appliance is used in combination with CICS

IBM Rational Developer for System z now provides tools for Web 2.0 style RESTful services for both CICS and IMS. Restful services provide a lighter-weight model compared to traditional Web services and are typically used for rapidly assembling situational applications and mashups using tools like EGL Rich UI included IBM Rational Developer for System z with EGL or Lotus® Mashup Center. IBM Rational Developer for System z provides tools to create:

- CICS ATOM feeds from TS Queues, VSAM datasets, or other CICS COMMAREA or Channel-based transactional programs
- CICS RESTful services using XSDBind creation wizards to help exploit existing processing and transform to XML data and services
- IMS Info 2.0 and Lotus Mashup center deployment for IMS transactional applications

## *CICS SCA*

SCA is a new application assembly model for CICS applications. SCA allows the developer to model, describe, generate, and deploy application components as a unit. The SCA description holds descriptions of input/output criteria, resource definition requirements, component configuration information, and well as component dependencies linkages. This set of resources can be deployed to CICS, which analyzes dependencies to ensure the application will execute correctly based on component linkages.

The WebSphere Application Server includes a SCA feature pack to support SCA components similar to CICS components. IBM Rational Developer for System z can also model, describe, generate, and deploy to WAS for Java Enterprise Edition components. IBM Rational Developer for System z can help model the Web service linkages between WAS and CICS for understanding the heterogeneous application structure of a complete system.

The SCA models, diagrams, and documentation can be shared in an SCM or collaboration tool as a single unit as documentation for application structure and dependencies to facilitate sharing with other developers or to keep a historical record of application needs.

#### *Integrated CICS Explorer and Application Deployment Manager tooling*

IBM Rational Developer for System z includes a newly upgraded and integrated copy of the CICS Explorer, based on the version made available in CICS TS V4.1 as described in Software Announcement [209-135](#), dated April 28, 2009. The CICS Explorer is enhanced with the IBM Rational Developer for System z Application Deployment Manager (ADM). The CICS Explorer and ADM allow you to query, define, and install needed CICS resources, Services, and SCA bundles.

The combination of CICS Explorer and IBM Rational Developer for System z simplifies the CICS development process by removing or automating several manual steps in the service deployment and testing cycle. The developer no longer has to return to the green screen, or work with CICS System Programmers via manual interaction, to define many of the CICS application resources they need for testing application changes.

IBM Rational Developer for System z also gives developers the ability, if permitted in the CICS environment, to define and manage their own CICS resource definitions to speed applications development. Combined with the IBM Rational Developer for System z Manifest Process Tool tech preview, developers and systems programmers can collaborate in an easier manner to improve and speed CICS application development workflow.

The IBM Rational Developer for System z Enterprise Service Tools and z/OS project structures have been integrated with ADM to define and manage CICS application resources that need to be defined for CICS Web services and Service Flows and transactional applications to be deployed and tested. The resource definitions can be tied to the artifacts generated and maintained by IBM Rational Developer for System z and managed as part of the software life cycle via a source code management system such as IBM ClearCase or IBM Rational Team Concert for System z.

The integrated CICS Explorer also provides the foundation within IBM Rational Developer for System z for integrating the suite of CICS Tools from IBM - Interdependency Analyzer, Performance Analyzer, and Configuration Manager. The eclipse interfaces for these tools are provided separately, but can be integrated into the IBM Rational Developer for System z shell to provide a single workbench for all CICS development activities.

#### *New source code management and collaboration support*

New integration with CA Endeavor Source Control Manager including:

- Views for displaying, searching, and filtering environments, systems, subsystems, stages, and types
- Integration with Endeavor GENERATE processing
- Actions for working with Endeavor packages
- Ability to inspect Endeavor member history or compare members at different versions and stages
- Integration with z/OS remote projects using RETRIEVE, ADD, and UPDATE from Endeavor. This facilitates the use of typical IBM Rational Developer for System z functions such as content assist, open copybook, unit build, compare and more
- Limited QUICKEDIT like capabilities. The QUICKEDIT capabilities support browsing only at this time.

IBM Rational Developer for System z packages and integrates with the IBM Rational Team Concert for System z client facilitating integrations with IBM Rational Team Concert for System z V2.0 server capabilities such as:

- Work Item sharing and collaboration tools

- Instant messaging integration with team members
- Project planning tools
- Change tracking and analysis tools to investigate why changes are made to code

There are also specific IBM Rational Team Concert for System z enhancements made to IBM Rational Developer for System z V7.6, such as:

- Work item URI linking directly to datasets and third-party SCMs using IBM Rational Developer for System z Remote Systems Explorer.
- z/OS SubProject integration allowing System z code to be checked out from the IBM Rational Team Concert for System z source code repository directly into a subproject and datasets on the host. This facilitates using all the standard IBM Rational Developer for System z functionality such as editors, syntax check, open copybook, and unit build.
- Integration with IBM Rational Team Concert for System z build definitions to locate information such as SYSLIB and COPYLIB to automatically enable IBM Rational Developer for System z functionality without the need for a set of property groups.

Using IBM Rational Team Concert for System z, IBM Rational Developer for System z, and the IBM Debug Tool together also enable what we call (Collaborative) Team Debugging. Team Debug allows developers to:

- Put debug sessions "on hold" and stored, searchable, and managed in the IBM Rational Team Concert for System z Team Server.
- Transfer control of the debug sessions to other developers - transferring source code and breakpoints, while bringing the new user to the point in the code the debugger is currently executing.

There is no longer a need to recreate debug sessions to walk through or document debugging steps with another user; simply share the debugger via IBM Rational Team Concert for System z. This capability is enabled for COBOL, PL/I, C++, Java, and assembler for CICS, IMS, Batch, DB2, and WebSphere Application Server.

#### *Integrated application life cycle*

WebSphere Service Registry And Repository support via the WebSphere Service Registry And Repository Eclipse plugins to allow integration with Web service test and production governance systems

Enhanced System z Debugger support including:

- Integration with the LPEX editor facilitating better flow from editing to debugging
- Use of the outline view while debugging
- Content assist while entering debug commands
- New Debug Console commands that can also be entered in a command file are added to allow for unattended debugging.
- Team Debugging with IBM Rational Team Concert for System z

Enhanced File Manager Integration, enabled with IBM File Manager V10.1, facilitates access to structured data files from the IBM Rational Developer for System z workbench including:

- Support for template-driven display of VSAM, PDS Member, and Sequential File data. IBM Rational Developer for System z now offers full support for creating, editing, and updating existing or new File Manager templates providing the equivalent functionality as provided by the green-screen interface.
- Browsing and updating datasets from the workbench. IBM Rational Developer for System z provides a window to the dataset being worked, similar to the green screen interface, but enhanced with additional search and data manipulation actions.
- Supporting large dataset display and edit. The entire dataset is not downloaded to the workstation, only the part of the dataset being worked on. IBM Rational

Developer for System z can still facilitate actions against the entire dataset using the File Manager engine on the host.

- Support for searching large datasets via host-based searching and display.
- New VSAM utility operations such as copy and allocate-like available from the Remote System Explorer browser.

Fault Analyzer Integration allows users to:

- Browse Fault Analyzer ABEND reports on CICS, IMS, Batch, Java, WebSphere, and other runtimes.
- View dump selections relating to ABENDs.
- Annotate reports to share comments with other users who browse the same reports.
- View a new split-screen mode in the dump analyzer, allowing users to view disparate parts of the same dump contents to compare data in different parts of the dump easily.
- Includes reference the same editor sessions used for code editing instead of module sidefiles. This offers a more integrated experience using the same data for all problem determination tool integrations and developer sessions leading from editing to fault analysis more seamlessly.

### **Technology previews**

Technology previews provide insight into IBM plans and directions and information is provided "as-is" and without warranty or condition of any kind. Customers who want to participate in the technology preview to gain early experience with this support should visit the IBM Rational Developer for System z Web site at

<http://www.ibm.com/software/awdtools/devzseries/support/>

This Web site gives detailed information about availability dates and terms and conditions.

#### *Manifest Processing Tool technology preview*

This technology preview provides a systems programmer compliment to the developer Application Deployment Manager. The developer can send requests for groups of CICS resources (a manifest) to be defined, installed, or altered to the system programmer via CICS.

By using the Manifest Processing Tool, systems programmers can view requests from developers and easily approve, define, and install required resources with a single click. Systems programmers are given the option to approve only portions of the request and edit requested resource definitions when required.

#### *Pattern-based development technology preview*

This technology preview allows the application developer to generate application structure based on defined application models. The models are managed by the pattern, but allow for specific code business logic to be created. This is a transition technology for VA Pacbase customers looking to move to a software development platform for pattern development allowing modernization and integration with modern software application life-cycle management tools.

### **IBM Rational Developer for System z with EGL**

IBM Rational Developer for System z with EGL integrates the capabilities of IBM Rational Developer for System z as described previously with IBM Rational Business Developer V7.5.1 to facilitate development of EGL-driven Web and Web 2.0 Rich UI applications for System z.

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, and Apache Tomcat) and traditional transactional systems (such as IBM System z CICS and IMS).

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 services and applications.

IBM Rational Developer for System z with EGL provides strong 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.

For more information on this product, refer to Software Announcement [208-444](#), dated December 2, 2008.

### **IBM Rational Developer for System z with Java**

IBM Rational Developer for System z with Java integrates IBM Rational Developer for System z and IBM Rational Application Developer for WebSphere Software V7.5.3 to create a complete enterprise application development environment for System z and distributed applications.

This provides the IBM Rational Developer for System z developer with comprehensive Java, JEE, Web, Web services, and SOA tooling and enables them to target IBM WebSphere runtimes including WebSphere Application Server and WebSphere Portal Server.

IBM Rational Developer for System z with Java enables organizations to improve development team productivity with enhanced iterative development support. It also helps companies optimize their existing IBM product investment with its WebSphere test environments including test environments for WebSphere Application Server 7.0, WebSphere Application Server 6.1, and WebSphere Application Server 6.0.

For more details, refer to IBM Rational Application Developer for WebSphere V7.5 Software Announcement [208-305](#), dated September 9, 2008.

### **IBM Rational Developer for System z online resources**

IBM Rational Developer for System z has a variety of resources online to collaborate with the development organization and the community of IBM Rational Developer for System z developers at large:

Demos on the IBM Education Assistant for learning the features of IBM Rational Developer for System z

- IBM Rational Developer for System z  
<http://publib.boulder.ibm.com/infocenter/ieduasst/rtnv1r0/index.jsp>
- CICS Transaction Server  
<http://publib.boulder.ibm.com/infocenter/ieduasst/stgv1r0/index.jsp>

The User Forum for Q&A, best practices, news, and discussions around IBM Rational Developer for System z

[http://www.ibm.com/developerworks/forums/dw\\_forum.jsp?forum=1131](http://www.ibm.com/developerworks/forums/dw_forum.jsp?forum=1131)

The IBM COBOL Cafe for latest technical information, business news, conference, seminar, Web-cast and event information about COBOL related products and systems, as well as IBM Rational Developer for System z news, discussions, blogs, resource libraries

<http://www.ibm.com/rational/cafe/community/cobol>

IBM Rational Developer for System z RFE community for creating/managing your own Requests For Enhancement for IBM Rational products

<http://www.ibm.com/developerworks/support/rational/rfe/>

## **Additional information**

### **Summary of IBM Rational Developer for System z**

IBM Rational Developer for System z consists of a common workbench and an integrated set of tools that support end-to-end, model-based application development, run-time testing, and rapid deployment of on demand applications. It offers integrated development environments (IDE) with advanced, easy-to-use tools and features to help WebSphere, CICS, and IMS developers rapidly design, code, and deploy complex applications.

### **Web, Java Enterprise Edition, and Java development**

#### Web development

- Helps develop creative and data-rich Web-based applications
- Provides visual layout tools to help you write Java Server Faces (JSF), JavaServer Pages (JSP), EGL Web UI, EGL Rich UI, and HTML
- Includes a wizard to develop servlet and page handler code
- Lets you create Web applications from database queries and beans
- Includes graphic-design software for producing static and animated output
- Supports Java Enterprise Edition coding and deployment

#### Java development

- Helps create Java code
- Helps enable incremental compilation and provides a common local and remote debugger benefit
- Includes Java source file tools to search, compare, and merge code and refactoring tools to help reorganize Java applications

#### Java Enterprise Edition platform support

- Features full Enterprise JavaBeans™ (EJB) support, Web Archive (WAR) and Enterprise Application Archive (EAR) deployment support
- Includes an updated EJB test client and an enhanced unit-test environment to create multiple projects with different unit-test configurations

#### Analysis and performance profiling

- Collects and presents Java run-time data in graphical and non-graphical views
- Helps detect application performance issues early in the development cycle and improves overall system efficiency

#### z/OS and z/OS UNIX development

- Provides an interactive, workstation-based environment with quick access to IBM z/OS datasets and z/OS UNIX Hierarchical File System (HFS) / System z File System (zFS) files
- Creates Assembler, COBOL, PL/I, C, C++, and Java code
- Creates, maintains, and debugs CICS and IMS system-based code, IMS and Structured Query Language (SQL) statements

#### Windows development

- COBOL for Windows compiler supports development of COBOL applications including compiling, testing, debugging, and deploying to Windows platforms.

- IBM PL/I for Windows compiler supports development of IBM PL/I applications including compiling, testing, debugging, and deploying to Windows platforms.
- IBM TXSeries® provides CICS support for development of IBM PL/I and COBOL for Windows applications including translating, compiling, testing, and debugging. For deployment, IBM TXSeries for Multiplatforms must be purchased.

## Composite development

### Web services and XML development

- Offers the ability to create, view, edit and validate WSDL, document-type definitions (DTD) and XML schemas, transforms XML documents into text, HTML, or other XML document types
- Integrates relational databases and XML
- Generates COBOL or PL/I adapters and CICS TS V3 WSBind for converting between Web service Description Language (WSDL), XML, and CICS program data in a Web services environment
- Generates COBOL or PL/I adapters, Web service Description Language, and configuration files for enabling IMS Soap Gateway to accept Web service calls to IMS transactions

### Testing and deployment

Allows cross-platform interactive testing, debugging, and deployment of JSP, EGL programs, servlets, page handlers, Rich UI applications, EJB, and HTML files on local and remote Web application servers as well as z/OS CICS, IMS, batch, DB2, and UNIX System Services debugging of COBOL, PL/I, C, C++ and assembler applications.

### Web services deployment

- Helps build and deploy Web services-enabled applications across a broad range of platforms
- Offers tools to help ensure conformance to standards such as UDDI for Java, Simple Object Access Protocol (SOAP), and Web services Description Language (WSDL)

### Relational database

- Helps create and manipulate project data design as relational database (RDB) schemas
- Writes queries against local and remote data.

### Globalization support

A multilingual version of this product is available in English, French, German, Japanese, Korean, Portuguese, Spanish, Simplified Chinese, and Traditional Chinese.

## Bundled offerings

The IBM Rational Developer for System z V7.6 media package contains complimentary bundled offerings. Usage of and service support for these bundled offerings is subject to restrictions. These restrictions are described in the License Information documents. In order to use any of the bundled offerings outside of the usage restrictions and to receive full service support, you must obtain a separate license for the offering.

The bundled offerings in IBM Rational Developer for System z with EGL include:

- IBM Rational Business Developer V7.5.1

Helps developers quickly design, develop, analyze, test, profile, and deploy high-quality Web, SOA, and Web 2.0 applications. Optimized for WebSphere software, this tool provides capabilities for deploying to other runtime platforms,

helping customers increase productivity, minimize the learning curve, and shorten development and test cycles.

For more information on this product, refer to Software Announcement [208-444](#), dated December 2, 2008.

- IBM TXSeries for Developers V7.1

This is a special edition of IBM TXSeries for Multiplatforms V7.1 made for Rational Developer for System z V7.6. For more information on this product, refer to Software Announcement [209-040](#), dated March 17, 2009.

- IBM DB2 Workgroup Edition V9.5

For more information on this product, refer to Software Announcement [207-261](#), dated October 16, 2007.

- IBM DB2 Connect™ V9.5

For more information on this product, refer to Software Announcement [207-256](#), dated October 16, 2007.

The bundled offerings in IBM Rational Developer for System z with Java include:

- IBM Rational Application Developer for WebSphere Software V7.5

Helps developers quickly design, develop, analyze, test, profile, and deploy high-quality Web, SOA, Java, J2EE, and portal applications. Optimized for WebSphere software, this tool provides capabilities for deploying to other runtime platforms, helping customers increase productivity, minimize the learning curve, and shorten development and test cycles.

- IBM WebSphere Application Server for Developers V7.0

For more information on this product, refer to Software Announcement [208-266](#), dated September 9, 2008.

- IBM WebSphere Portal Enable for Multiplatforms V6.1
- IBM CICS Transaction Gateway for Multiplatforms V7.1

For more information on this product, refer to Software Announcement [207-274](#), dated November 6, 2007.

- IBM TXSeries for Developers V7.1

This is a special edition of IBM TXSeries for Multiplatforms V7.1 made for IBM Rational Developer for System z V7.6.

For more information on this product, refer to Software Announcement [209-040](#), dated March 17, 2009.

- IBM DB2 Workgroup Edition V9.5

For more information on this product, refer to Software Announcement [207-261](#), dated October 16, 2007.

- IBM DB2 Connect V9.5

For more information on this product, refer to Software Announcement [207-256](#), dated October 16, 2007.

## Section 508 of the U.S. Rehabilitation Act

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IBM Rational Developer for System z is capable as of October 15, 2009 , 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](http://www.ibm.com/able/product_accessibility/index.html)

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### Program number

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Program number	VRM	Program name
5724-T07	7.6.0	IBM Rational Developer for System z

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### Education support

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The following educational offerings are available:

Course code	Course title	Course type
SW913	Advanced Web-to-Host Application Integration using IBM webSphere HATS	Classroom
SW337	CICS AD support for SOAP and XML	Classroom
CI172	CICS Application Programming I	Classroom
CI181	CICS Application Programming II	Classroom
CI19	CICS Application Programming with Java	Classroom
SW336	CICS Web Enablement	Classroom
XC242	COBOL Programming workshop	Classroom
CI71	Connecting CICS to webSphere Application server via CICS Transaction Gateway	Classroom
SW737	Connecting the Enterprise	Self-study
SW521	Developing COBOL with webSphere Developer for System z	Classroom
SW758	EGL Generation of COBOL using webSphere Developer for System z	Self-study
SW757	EGL and JSF Development using webSphere Developer for System z	Self-study
SW509	EGL for z/OS Environments using webSphere Developer for System z	Classroom
SW728	Enterprise Development with IBM webSphere Developer for System z	Self-study
SW745	Fault Analyzer	Self-study

SW744	File Manager	Self-study
SW912	IBM WebSphere Host Access Transformation Services Introduction	Classroom
SW501	Intro to Web services Development with IBM Rational Application Developer	Classroom
JA321	Introduction to Developing OO Applications with Java for Procedural Developers	Classroom
SW700	Introduction to EDI Concepts and Standards	Self-study
SW244	Introduction to Java using IBM Rational Application Developer	Classroom
WF311	Servlet and JSP Development with IBM Rational Application Developer	Classroom
SW502	Web services Development with IBM Rational Application Developer	Classroom

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training Web site

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

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

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## Offering Information

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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>

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## Publications

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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.

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

For the most current list of hardware prerequisites, visit

<http://www.elink.ibm.link.ibm.com/publications/servlet/pbi.wss?CTY=US&>

#### **Software requirements**

For the most current list of Software prerequisites, visit

<http://www.elink.ibm.link.ibm.com/publications/servlet/pbi.wss?CTY=US&>

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

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#### **Customer responsibilities**

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 Developer for System z CD

### Security, auditability, and control

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

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## Software Services

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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 extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

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

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

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## Ordering information

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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 Developer for System z with EGL	Rational Other	Rational Other
IBM Rational Developer for System z with Java	Rational Other	Rational Other

  

Program name	PID number	Charge unit description
IBM Rational Developer for System z with EGL	5724-T07	Per Authorized User for System z
IBM Rational Developer for System z with EGL	5724-T07	Per Floating User
IBM Rational Developer for System z with EGL	5724-T07	Per Authorized User
IBM Rational Developer for System z with EGL	5724-T07	Per Floating User for System z
IBM Rational Developer for System z with Java	5724-T07	Per Floating User for System z
IBM Rational Developer for System z with Java	5724-T07	Per Authorized User
IBM Rational Developer for System z with Java	5724-T07	Per Authorized User for System z
IBM Rational Developer for System z with Java	5724-T07	Per Floating User

### 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 Developer for System z

Part description	Part number
IBM Rational Developer for System z with EGL RDZ EGL Authorized User License & Software Subscription/Support 12 Month	D053NLL
RDZ EGL Authorized User SW Subscription/Support Reinstatement 12 Months	D053PLL
RDZ EGL Authorized User Software Subscription and Support Annual Renewal	E05DLLL
RDZ EGL Floating User License & Software Subscription and Support 12Months	D055QLL
RDZ EGL Floating User Software Subscription and Support Annual Renewal	E05EFLl
RDZ EGL Floating User Software Subscription/Support Reinstatement 12Months	D055ZLL

### IBM Rational Developer for System z

IBM Rational Developer for System z with Java RDZ Java Authorized User License & Software Subscription/Support 12 Month	D057XLL
RDZ Java Authorized User SW Subscription/Support Reinstatement 12 Months	D057YLL
RDZ Java Authorized User Software Subscription and Support Annual Renewal	E05FBLL
RDZ Java Floating User License & Software Subscription and Support 12 Month	D0576LL
RDZ Java Floating User Software Subscription and Support Annual Renewal	E05EZLL
RDZ Java Floating User Software Subscription/Support Reinstatement 12 Month	D0577LL

## Passport Advantage Trade-up licenses

### IBM Rational Developer for System z

Precursor product	Trade-up product	Part number
IBM Rational Developer for System z with Java IBM WebSphere Developer Debugger for System z	RDZ Java Auth User Tradeup from WDDz Lic& SW Subscription/Support 12 Mnth	D05A4LL
IBM Rational Application Developer for WebSphere Software	RDZ Java AuthUser Tradeup from RAD Lic&SW Subscription/Supt 12 Mnth	D05A6LL
IBM WebSphere Developer Debugger for System z	RDZ Java Floating User Tradeup from WDDz Lic& SW Subscription/Supt. 12 Mnth	D05AULL
IBM Rational Developer for System z with Java Auth User	RDZ Java Floating User from RDZ Java Auth User Trade Up Lic + SW S&S 12 Mo	D0AYLLL
IBM Rational Application Developer for WebSphere Software	RDZ Java FloatingUser Tradeup from RAD Lic&SW Subscript/Supt. 12Months	D05AWLL

## IBM Rational Developer for System z

IBM Rational Developer for System z with EGL		
IBM WebSphere Developer Debugger for System z	RDZ EGL Auth User Tradeup from WDDz Lic& SW Subscription/Support 12 Mnth	D059TLL
IBM VisualAge Generator	RDZ EGL AuthUser Tradeup from VisAgeGen Lic&SW Subscription/Supt 12 Mnth	D059ULL
IBM WebSphere Developer Debugger for System z	RDZ EGL Floating User Tradeup from WDDz Lic& SW Subscription/Supt. 12Mnths	D05A0LL
IBM Rational Developer for System z with EGL Auth User	RDZ EGL Floating User from RDZ EGL Auth User Trade Up Lic + SW S&S 12 Mo	D0AYDLL
IBM VisualAge Generator	RDZ EGL FloatingUser Tradeup from VisAgeGen Lic&SW Subscript/Supt. 12Mnths	D05A1LL

## Passport Advantage supply

Program name/description	Part number
RDZ EGL V7.6.0	
IBM Rational Developer for System z with EGL V7.6 Multilingual (Core)	BT09MML
IBM Rational Developer for System z V7.6 Multilingual (Server)	BT09PML
IBM Rational Developer for System z with EGL V7.6 Multilingual (Optional)	BT09QML
RDz Java V7.6.0	
IBM Rational Developer for System z with Java V7.6 Multilingual (Core)	BT09NML
IBM Rational Developer for System z with Java V7.6 Multilingual (Optional)	BT09RML
IBM Rational Developer for System z V7.6 Multilingual (Server)	BT09PML

## 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.

## IBM Rational Developer for System z with Java V7.6.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Developer for System z with Java per Authorized User	IBM Rational Developer for System z with Java V7.6 Multilingual (Optional)	BT09RML
IBM Rational Developer for System z with Java per Authorized User	IBM Rational Developer for System z with Java V7.6 Multilingual (Core)	BT09NML
IBM Rational Developer for System z with Java per Authorized User for System z	IBM Rational Developer for System z with Java V7.6 Multilingual (Core)	BT09NML
IBM Rational Developer for System z with Java per Authorized User for System z	IBM Rational Developer for System z with Java V7.6 Multilingual (Optional)	BT09RML
IBM Rational Developer for System z with Java per Floating User	IBM Rational Developer for System z with Java V7.6 Multilingual (Optional)	BT09RML

IBM Rational Developer for System z with Java per Floating User	IBM Rational Developer for System z with Java V7.6 Multilingual (Core)	BT09NML
IBM Rational Developer for System z with Java per Floating User for System z	IBM Rational Developer for System z with Java V7.6 Multilingual (Core)	BT09NML
IBM Rational Developer for System z with Java per Floating User for System z	IBM Rational Developer for System z with Java V7.6 Multilingual (Optional)	BT09RML

### IBM Rational Developer for System z with EGL V7.6.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Developer for System z with EGL per Authorized User	IBM Rational Developer for System z with EGL V7.6 Multilingual (Optional)	BT09QML
IBM Rational Developer for System z with EGL per Authorized User	IBM Rational Developer for System z with EGL V7.6 Multilingual (Core)	BT09MML
IBM Rational Developer for System z with EGL per Authorized User	IBM Rational Developer for System z V7.6 Multilingual (Server)	BT09PML
IBM Rational Developer for System z with EGL per Authorized User for System z	IBM Rational Developer for System z V7.6 Multilingual (Server)	BT09PML
IBM Rational Developer for System z with EGL per Authorized User for System z	IBM Rational Developer for System z with EGL V7.6 Multilingual (Core)	BT09MML
IBM Rational Developer for System z with EGL per Authorized User for System z	IBM Rational Developer for System z with EGL V7.6 Multilingual (Optional)	BT09QML
IBM Rational Developer for System z with EGL per Floating User	IBM Rational Developer for System z with EGL V7.6 Multilingual (Optional)	BT09QML
IBM Rational Developer for System z with EGL per Floating User	IBM Rational Developer for System z with EGL V7.6 Multilingual (Core)	BT09MML
IBM Rational Developer for System z with EGL per Floating User	IBM Rational Developer for System z V7.6 Multilingual (Server)	BT09PML
IBM Rational Developer for System z with EGL per Floating User for System z	IBM Rational Developer for System z V7.6 Multilingual (Server)	BT09PML
IBM Rational Developer for System z with EGL per Floating User for System z	IBM Rational Developer for System z with EGL V7.6 Multilingual (Core)	BT09MML
IBM Rational Developer for System z with EGL per Floating User for System z	IBM Rational Developer for System z with EGL V7.6 Multilingual (Optional)	BT09QML

### Cross-platform products

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#### ***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 and/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 Developer for System z

Part description	Part number
IBM Rational Developer for System z with EGL RDz EGL Auth User Sys z License & Software Subscription/Support 12 Month	D054WLL
RDz EGL Auth User Sys z Software Subscription and Support Annual Renewal	E05DZLL
RDz EGL Auth User Sys z Software Subscription/Support Reinstatement 12Mnths	D054XLL
RDz EGL Floating User Sys z Software Subscription/Support Annual Renewal	E05EXLL
RDz EGL Floating User Sys z License&Software Subscription/Support 12Months	D0572LL
RDz EGL Floating User Sys z Software Subscription/Supt Reinstatement 12Mnt	D0573LL

## IBM Rational Developer for System z

IBM Rational Developer for System z with Java RDz Java Authorized User Sys z License&Software Subscription/Support 12Mnth	D0587LL
RDz Java Authorized User Sys z SW Subscription/Supt. Reinstatement 12Months	D0588LL
RDz Java Authorized User Sys z Software Subscription/Support Annual Renewal	E05FGLL
RDz Java Floating User Sys z Software Subscription/Support Annual Renewal	E05EWLL
RDz Java Floating User Sys z License&Software Subscription/Support 12 Month	D0570LL
RDz Java Floating User Sys z Software Subscription/Supt Reinstatement 12Mnt	D0571LL

### ***Cross-platform product for use on System z Integrated Facility for Linux (IFL) engines***

Order the part numbers that follow when the product is intended to run on the Linux operating system on System z Integrated Facility for Linux (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.

### **Trade-up licenses for cross-platform products**

#### **IBM Rational Developer for System z**

Precursor product	Trade-up product	Part number
IBM Rational Developer for System z with Java		
IBM WebSphere Developer Debugger for System z	RDz Java Auth User Sys z Tradeup from WDDz Lic& SW Subscription/Supt 12Mnth	D05A8LL
IBM Rational Application Developer for WebSphere Software	RDz Java AuthUser Sys z Tradeup from RAD Lic&SW Subscription/Supt 12 Mnths	D05AALL
IBM Rational Application Developer for System z with Java Auth User for Sys z	RDz Java Float User z from RDz Java Auth User z Trade Up Lic + SW S&S 12 Mo	D0AYMLL
IBM Rational Application Developer for WebSphere Software	RDz Java FloatingUser Sys z Tradeup from RAD Lic&SW Subsc/Supt 12Mnths	D05B2LL
IBM WebSphere Developer Debugger for System z	RDz Java FloatingUser Sys z Tradeup from WDDz Lic&SW Subsc/Supt 12Mnths	D05B0LL

## IBM Rational Developer for System z

IBM Rational Developer for System z with EGL		
IBM WebSphere Developer Debugger for System z	RDZ EGL AuthUser Sys z Tradeup from WDDz Lic&SW Subscription/Supt 12Mnths	D059XLL
IBM VisualAge Generator	RDz EGL AuthUser Sys z Tradeup from VisAgeGen Lic&SW Subscript/Supt 12Mnth	D059YLL
IBM Rational Developer for System z with EGL Auth User for Sys z	RDZ EGL Float User z from RDZ EGL Auth User z Trade Up Lic + SW S&S 12 Mo	D0AYELL
IBM VisualAge Generator	RDZ EGL FloatingUser Sys z Tradeup from VisAgeGen Lic&SW Subsc/Supt 12Mnth	D05A3LL
IBM WebSphere Developer Debugger for System z	RDz EGL FloatingUser Sys z Tradeup from WDDz Lic&SW Subsc/Supt 12Mnths	D05A2LL

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### Terms and conditions

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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.

#### **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 Developer for system z	5724-T07	L-DCWN-7HBH3U

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 five 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

IBM Rational Developer for System z      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 shrinkwrap.

### ***Usage restriction***

Yes. The IBM Rational Developer for System z V7.5 media package contains complimentary bundled offerings. Usage of and service support for these bundled offerings is subject to restrictions. These restrictions are described in the License Information documents. In order to use any of the bundled offerings outside of the usage restrictions and to receive full service support, you must obtain a separate license for the offering.

The Technology Previews are unwarranted software provided "as is" for evaluation and feedback purposes only. These Technology Previews are not covered under the same licensing, warranty, program technical support and software maintenance as the Rational Developer for System z product. For each Technology Preview, there is a separate license with unique terms and conditions covering licensing, warranty, program technical support and software maintenance. See the license for the Technology Preview you want to evaluate to understand the terms and conditions that apply to your use of that software.

### **Software Subscription and Support (Software Maintenance)**

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.

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.

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>

Software Subscription and Support (also referred to as 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>

### **System i Software Maintenance applies**

No

### **Educational allowance available**

Not applicable.

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## Prices

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For additional information and current prices, contact your local IBM representative.

### Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner, or authorized IBM Business Partner for Software ValueNet®, if applicable. 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/howtobuy/passportadvantage/paoreseller>

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## Order now

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To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)  
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