



# IBM Rational Integrated Development Environments deliver enhanced customer value and help to raise developer productivity

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## At a glance

When used to create and maintain applications, these offerings, the new IBM® Rational® V9.0 Integrated Development Environment (IDE) offerings:

- Help enable enhanced speed, agility, and quality outcomes
- Help optimize applications for various target platforms and middleware
- Support a variety of tools and techniques for maintaining and extending key business assets held in the form of COBOL, PL/I, and RPG applications
- Represent a complete solution for creating multi-tier, multi-channel applications that support a wide variety of client devices and influence a variety of back-end systems

Version 9.0 delivers new and enhanced capabilities across the breadth of the Rational IDE portfolio.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: AE001).

## Overview

Your business must be fast, agile, scalable, and efficient. Creation of your software and services must reflect those same qualities. Your developers must be enabled with the most effective tools for delivery of high-quality, innovative solutions on time and on budget. IBM offers a portfolio of IBM Rational Integrated Development Environments (IDEs) that span and are optimized for numerous:

- Platforms
- Languages
- Programming models
- Middleware solutions

These Rational IDEs are designed to help raise developer productivity, attract and retain talent, and reduce initial training costs as many new hires may likely already be familiar with the Eclipse workbench environment on which the Rational IDEs are based.

Where skillfully used for the tasks of creating and maintaining applications, these Rational IDEs help enable enhanced speed, agility, and quality outcomes. They

provide capabilities to help optimize applications for various target platforms and middleware, and they support a variety of tools and techniques for maintaining, extending, and modernizing key business assets held in the form of heritage COBOL, PL/I, and RPG applications. They comprise a comprehensive set of tools for developing multi-tier, multi-channel applications that support a wide variety of client devices and influence a wide variety of back-end systems.

These Rational IDEs integrate tightly with IBM optimizing compilers and IBM Rational Collaborative Lifecycle Management, to serve as key elements of a complete multi-platform application development, porting, optimization, and Collaborative Application Lifecycle Management solution.

Version 9.0 delivers new and enhanced capabilities across the entire breadth of the Rational IDE portfolio.

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## Key prerequisites

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

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## Planned availability date

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- June 14, 2013: Electronic availability
- July 5, 2013: Media availability

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## Description

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### **Rational Application Developer for WebSphere® Software V9.0**

Rational Application Developer Base capabilities

Rational Application Developer is a development environment, that is optimized for WebSphere Application Server and the Liberty Profile (a simplified lightweight runtime for web and OSGi applications), WebSphere Portal, and IBM Workload Deployer to help improve the productivity of your development team, from novice developers to senior professionals.

Rational Application Developer is a complete environment for development of Java™ EE, SOA, OSGi, Cloud, Web 2.0, Mobile Web, Portal, SCA, and Modern batch applications. In addition to capabilities that help developers write new software, Rational Application Developer provides unit testing with embedded test servers, and problem determination and code analysis tools to ensure delivery of high-quality applications that can be easily maintained to provide both value and time savings across the full life span of an application.

The capabilities of this offering enable organizations to:

- Increase developer and team productivity through enhanced agile and iterative development support
- Focus on creation, validation, and refactoring of artifacts
- Exploit the annotation-based programming model style
- Utilize a rich variety of programming models that include:
  - JEE6 support (EJB 3.1, JPA 2.0, JSF 2.0, and Servlet 3.0)
  - Simplified development of Web 2.0 and mobile web-style rich Internet applications with support for AJAX, JavaScript™, Dojo, HTML5, CSS3, and REST services
  - OASIS SCA 1.1 support
  - OSGI application development tools
  - Java batch applications

Improve team collaboration and application quality by leveraging these and other capabilities:

- Integration with Rational Team Concert™, a planning, collaboration, and change management solution that:
  - Lets developers collaborate more efficiently and connect with other project stakeholders.
  - Lends transparency to development processes and project health.
- Code review (static analysis) includes over 200 predefined rules for coding guidelines and best practices. Provides "Quick Fix" suggestions and allows for customization of rules, via rules templates.
- Line-level-code coverage analysis that provides detailed information on what code paths were run during program execution and helps to ensure the proper test coverage. The results can be shared through integration with Rational Team Concert. Further integration with the Rational Team Concert build system allows for code coverage to be automated in your build verification tests or for code coverage results to be used to govern developers' ability to check-in code.
- Run-time analysis tools include memory leak detection, thread lock detection, user defined probes, and performance analysis.
- Collaborative debugging (based on integrations with Rational Team Concert) enables teams to share live debug sessions between members.

Enhance return on investment in IBM runtimes with optimized tooling support and integrations for these environments:

- WebSphere Application Server
  - Rational Application Developer includes embedded test environments for WebSphere Application Server including the Liberty profile.
  - Rational Application Developer is periodically updated as needed, to provide corresponding tooling support for WebSphere Application Server feature packs.
- WebSphere Portal
  - Includes embedded test environments for WebSphere Portal.
- IBM Workload Deployer
- Enterprise information systems
  - WebSphere adapter support (SAP, PeopleSoft, Siebel, Oracle E-Business Suite, and JD Edwards)
  - CICS® and IMS™ support
- Influence the efficiencies of cloud computing.
  - Access to WebSphere Application Server and WebSphere Portal test environments in the IBM SmartCloud® Enterprise
  - Ability to run Rational Application Developer itself in IBM SmartCloud Enterprise
  - Access to WebSphere, DB2®, Rational CLM, and other development platform services in IBM SmartCloud Application Services
  - Tools to streamline the use of IBM Workload Deployer

### **Rational Application Developer New V9.0**

Use the newest version of the lightweight, dynamic, and composable Liberty profile application server. Liberty is optimized for the developer experience and offers extremely fast startup, simple configuration, and high fidelity to the WebSphere Application Server full profile.

- New tools for developing JAX-WS Web Services targeting Liberty server with core security
- New support for targeting and installing user-defined Liberty Features

Include expanded options for refining and managing application architectures and for managing builds and deployments.

- Support for bundle-level updates to OSGi applications (for finer-grained control and improved publishing performance)
- Enhancements to Maven integration, most notably OSGi project conversion
- Improvements to CDI tools
- Enhancements for developing and deploying IBM Workload Deployer, Pure Application Systems, and IBM Smart Cloud workloads including an option to selectively import utility archives as either individual projects or as utility JARs
- SCA tools enhancements that include an import wizard
- New Service Map Tools that provide a simple and intuitive way of mapping and routing between Services deployed to WebSphere Application Server V8.5.5

Execute more efficiently and deliver richer output of code quality and analysis tasks.

- New, sampling-based profiling capabilities integrated with The IBM Monitoring and Diagnostic Tools for Java - Health Center
- Incorporation of Appscan code security review

Deliver new productivity gains with improved tools for developing multi-tier mobile and mobile web applications.

- Enhancements to the Rational Application Developer Web and mobile Web development tools including new JQuery support
- Integration of Rational Application Developer with Worklight® Studio

Deliver Eclipse currency and ecosystem compatibility.

- Supports Eclipse V4.2.2 and IBM JDK V7

Deliver updated support and embedded test environments for WebSphere .

- Supports WebSphere Application Server V8.5.5 and V8.5 (including Liberty profile), V8.0, and V7.0.
- Includes WebSphere Portal V8.0 (embedded test environment).

Include deprecations and removals:

- Deprecated: tool support for EJB 1.x and 2.x (specifically, tools will no longer support new JDK levels or databases)
- Deprecated: tool support for JSF Widget Library (JWL is also deprecated in the Rational Application Developer V8.5.x maintenance stream, as of version 8.5.1)
- Deprecated: the Java Visual Editor (tools for visual design of native (rich client) user interfaces. Note that this feature is only supported at Java version 1.6)
- Removed in Rational Application Developer Version 8.5.1: SDO Mediator tools
- Removed in Rational Application Developer Version 8.5.1: Lotus® iWidget tooling
- Removed in Rational Application Developer Version 8.5.1: Firebug integration
- Removed: desktop operating system support for Windows™ Vista

## **Rational Developer for System z® V9.0**

### **Rational Developer for System z Base capabilities (available in Version 9.0 and earlier releases)**

Rational Developer for System z is an IDE that provides the essential developer focused capabilities for the IBM Integrated Solution for System z Development. 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, and z/OS® . Rational Developer for System z integrates with existing System z

development processes. It includes problem determination, project management, testing solutions, and System z source management systems.

The Rational Developer for System z development environment can also be combined with the Rational Development and Test Environment for System z , based on the IBM System z Personal Development Tool. The Development and Test environment is designed to enable a virtual System z architecture environment that allows mainframe operating systems, middleware, and software to run unaltered on Intel™ and Intel-compatible platforms such as a Lenovo laptop or IBM System x® server. No System z mainframe hardware is needed.

Rational Developer for System z offers a wide reaching set of capabilities for the developer:

**System z integrated development environment:** Provides an interactive, workstation-based environment where you can connect to a mainframe and develop and maintain traditional mainframe applications, web applications, and integrated service-oriented architecture (SOA)-based composite applications in COBOL, PL/I, High-Level Assembler, C/C++, JCL, REXX, and Java .

**Application structural and quality analysis tools:** Helps developers deliver high quality COBOL and PL/I applications in a timely fashion that conform to in-house programming guidelines:

- Includes control flow diagrams for COBOL programs: a graphical representation of the program flow with links to the underlying source and zoom in-out capability.
- Identifies and highlights potential unreachable code using program scope static analysis.
- Data element table shows all the data elements for a given COBOL or PL/I program being edited and its dependent copy books or include files.
- Includes open called programs from within COBOL and PL/I source.
- Call Hierarchy for PL/I shows caller and callee relationships of PL/I procedures in a hierarchical tree view.
- Code review inspects your code for compliance with rules and best practices. Code review highlights potential problems and recommends code changes for improved quality.
  - This offering includes predefined rules and templates for COBOL and PL/I applications and a framework for the client to add their own COBOL rules.
  - Code review results can be viewed interactively in the Software Analyzer results view or through generated reports in HTML, PDF, CSV, or XML formats.

Editor capabilities include:

- Hyperlink support for COBOL copybooks and PL/I that includes files
- Sequence number support in COBOL and PLI editors
- Search capability for occurrences of a given variable
- Ability to highlight write occurrences in PLI, EXEC SQL, EXEC CICS , and EXEC DLI
- Enhanced outline view for PLI
- Ability to find HEX characters
- Ability to highlight of IFs, DOs, ENDS, matching parenthesis
- Improved navigation
- JCL Template support
- Open JCL Procedure from within JCL edit session
- Refactor -- Renamed for PLI
- Indentation support for PLI as part of Formatting capability
- Ability to customize System z LPEX Editor so that the command line can be at the top

- Support for content assist and real-time syntax checking for CICS Transaction Server V5.1
- Enhancements for Hover info for COPY and INCLUDE statements for COBOL and PL/I Editors
- Refresh Copybooks action for the COBOL Editor and PL/I Editor when working with remote files

Other System z development and test capabilities:

- Improved performance and memory usage when searching.
- Ability to preview +/- few lines around the search result.
- Enhanced System z data editor for QSAM files with a column ruler and Find and Replace capabilities.
- Support for use of remote SYSLIB (Data set concatenation) for local projects.
- Line level code coverage: Provides tools to measure and report on test coverage of an application, indicating what source code lines were tested and which lines remain to be tested.
- System z Code Generators: Provides design tools and wizards which allow you to rapidly create System z application code skeleton and logic from Unified Modeling Language models or user-provided input.
- z/OS Automated Unit Testing Framework (zUnit): Emulates the junit techniques available to Java programmers; Rational Developer for System z provides a code-driven unit testing framework for Enterprise COBOL and PL/I applications. zUnit provides an automated solution for executing and verifying Enterprise COBOL and PL/I unit test cases that are written by using the zUnit framework.
- Support Extended Address Volume (EAV) on z/OS .
- Ability to select multiple JCL files and submit them all at once.
- Improved process for creating property groups.

Team collaboration and repository support: Provide tools for accessing and interacting with a number of the industry's source code management offerings as well as collaborative lifecycle management tools.

- Rational Team Concert : Enhanced entry point to the Rational application lifecycle management solution including close software configuration management integration and effective remote project support and recovery handling.
- CA Endevor Software Change Manager: Provides tools to access and work with CA Endevor Software Change Manager managed source code, that includes an Endevor Element Search action, the ability to edit files directly from the repository.
- SCLM Developer Toolkit: Provides tools to access and work with source code managed by Software Configuration and Library Manager (SCLM).
- Rational ClearCase® SCM Adapter: Provides the IBM Rational ClearCase SCM and ClearCase MVFS plug-ins, which enable versioning of software artifacts in ClearCase versioned object bases (VOBs) by using snapshot views and dynamic views when ClearCase VOB and view servers are also installed.

### **Optimized tooling support for IBM runtimes:**

**CICS tools:** Tools specifically for developers working with CICS Transaction Server ( CICS TS), that includes the IBM CICS Explorer®

- Enterprise Service Tools for CICS (including Service Component Architecture): Provides an integrated set of tools that support modern application architectures and the transformation and reuse of existing CICS application processes. The tools support generation of web service descriptions and service flow processing artifacts directly to a z/OS system, (including CICS TS and the CICS Service Flow Runtime).
- Basic Mapping Support (BMS) Screen Designer: Enables you to visually create and modify (BMS) map sets. It is designed for CICS developers who are familiar with terminal-based tools (for example, SDF II) or GUI-based tools, such as the BMS editor included with VA COBOL.

- **CICS Code Generators:** Provides design tools and wizards, which allow you to rapidly create CICS Transaction Server application code skeleton and logic from UML models or user-provided input, for example, using UML models or database schema definitions to generate CICS transactions, which provide Create, Read, Update, and Delete interfaces to DB2 tables.

**Note:** With the inclusion of an integrated copy of the CICS Explorer, IBM has deprecated the Application Deployment Manager (ADM) capabilities in the Rational Developer for System z Integrated Development Environment products as of V8.5. The CICS Explorer allows you to query, define, and install needed CICS resources, Services, and SCA bundles.

The combination of CICS Explorer and 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 deprecated ADM capabilities continue to be supported for defect fixes and support questions, but no new enhancements, feature updates, or additional platform support are planned.

**IMS tools:** Tools specifically for developers working with IMS Transaction Manager (TM) and Database (DB).

- **Enterprise Service tools for IMS :** Provide an integrated set of tools that support modern application architectures and the transformation and reuse of existing IMS application processes, that include support for COBOL top-down for IMS Synchronous callout. The tools support generation of web service descriptions and processing artifacts directly to a z/OS system, that include the IMS Enterprise Suite 2.2 SOAP Gateway and IMS 2.0 applications. Enterprise Service Tools quickly enable the move towards (SOA).
- **MFS screen designer:** Enables you to create and modify Message Format Service (MFS) message and format files. Many Information Management System (IMS) programs are based on MFS, which is an IMS Transaction Manager environment facility that formats messages to and from terminal devices.
- **IMS Code Generators:** Provides code snippets, which allow you to rapidly add common programming objects to IMS application code.

**DB2 tools :** Tools specifically for developers working with DB2 databases, stored procedures, and applications.

- **Data tools:** Provides relational database tools to work with tables, table views, and filters. With these tools, you can create physical database models by means of reverse engineering database tables or using DDL scripts. You can also use the tools to create SQL statements, DB2 routines (such as stored procedures and user-defined functions), and several types of files, including SQLJ, SQL DDL, and XML files.
- **System z stored procedures:** Enables you to create, test, and deploy DB2-stored procedures written in COBOL, PL/I, Java, or SQL directly to a z/OS system.

#### **Problem determination tool integration: Integration with IBM Problem Determination Tools**

- **System z debugger:** Provides a workstation-based interface to IBM Debug Tool. This facilitates remote debug sessions with applications executing on a z/OS System.

**Note:** This feature requires that you have a license for IBM Debug Tool.

**Extensibility features :** Enables the adaptation and extension of the IBM Software Delivery Platform with custom-designed tools to match your own architectures, standards, and practices. These custom assets can enhance consistency and quality while reducing manual tasks.

- **Common Access Repository Manager (CARMA):** Provides a unified interface and set of services for accessing System z-based, source control management tools. CARMA also provides a generic GUI client that can be used as a framework for accessing and interfacing with custom source control management systems.

- Remote Resource Access API: Enables clients and third-party vendors to extend the function of Rational Developer for System z by programmatically accessing and manipulating remote resources.
- COBOL Application Model API: When writing custom COBOL rules, these APIs provide clients access to the COBOL language elements within their COBOL source code.

### **Rational Developer for System z V9.0 provides**

- Improved individual and team productivity and quality outcomes for reduced cost and shorter time to market through:
  - Automated zUnit simplification
  - Advanced JCL development tools
  - Enhanced, cross-platform team-level code governance capabilities
  - Headless code review and code coverage
  - Integrated access to Data Studio capabilities
  - More, resilient host connectivity
  - Improved cross language consistency
  - Improved interfaces with application lifecycle tools
    - Rational Team Concert user build support through Rational Developer for System z interfaces

Exploit the latest improvements in IBM hardware and runtime environments:

- Currency with CICS TS V5.1
- Integrations with optimizing compilers
- Support for Windows 8 workstations

Eclipse currency and ecosystem compatibility

- Supports Eclipse V4.2.2 and IBM JDK V7

### **Deprecations and removals**

- Removed in V8.0.1: Windows-based unit test capabilities based on the IBM Windows compilers for COBOL and PL/I, CICS TX for Windows , and DB2 for Windows . Clients who use the Windows compilers or need to continue using a strategic and supported local test environment from IBM are encouraged to contact an IBM representative to evaluate the Rational Development and Test Environment for System z or explore replacement technology for the Windows compilers
- Removed in V8.5.1: The Fault Analyzer Integration feature. This integration is replaced with the IBM Fault Analyzer plug-in obtained as a part of the IBM Fault Analyzer V12 prerequisite product. All new enhancement requests should be directed to the IBM Fault Analyzer product team directly
- Function deprecated: Local syntax check functionality. The deprecated capability continues to be supported for defect fixes and support questions, but no new enhancements are planned. IBM recommends adoption of the enhanced real-time syntax check capability now provided by the Rational Developer for System z editors
- Function deprecated: IMS PLI Top Down API

### **Rational Business Developer V9.0**

Rational Business Developer Capabilities (available in Version 9.0 and earlier releases)

Rational Business Developer V9.0 is an integrated development environment for EGL, a programming technology designed to simplify multi-platform application development. With EGL, developers can focus more on implementing the needs of the business and less on the intricacies of underlying frameworks and middleware.



EGL provides a common programming language and model across all parts of an application, complements popular languages like Java , JavaScript and COBOL, and deploys to popular platforms such as WebSphere Application Server, IBM Power Systems™ , and CICS .

### **Rational Business Developer V9.0**

Some new features included in Rational Business Developer V9.0 are:

- Support for WebSphere Application Server V8.5.5, including support for the Liberty profile
- Compatibility with Rational Application Developer for WebSphere Software V9.0
- Compatibility with Rational Developer for System z V9.0
- Compatibility with Rational Developer for i V9.0
- Compatibility with Rational Developer for AIX and Linux V9.0
- Enhanced support for DB2 Rowset processing
- Enhanced support for headless builds and generation

### **Rational Developer for the Enterprise V9.0**

#### **Rational Developer for the Enterprise Capabilities (new in Version 9.0)**

An offering comprised of the following:

- Rational Application Developer for WebSphere Software V9.0
- Rational Developer for System z V9.0
- Rational Developer for i V9.0
- Rational Developer for AIX® and Linux™ V9.0
- Rational Business Developer V9.0

Comprehensive IDE solutions spanning the key languages and platforms

- Enables development of COBOL, PL/I , C/C++ , High-level Assembler, EGL, Java , and Java Enterprise Edition applications for z/OS batch, CICS , IMS , WebSphere , DB2 , Mobile Web, Cloud, and supports SOA and Web service creation that spans z/OS , Linux , and AIX environments.
- Closely tied to compiler-hardware optimizations.
- Currency with major execution environments.
- Integrated through best practices to the broader Enterprise Modernization solutions.
- Includes built-in code analytics and governance facilities.
- Empowers effective multilingual development teams.
- Enables location independent code development.
- Integrates mobile development support.

Provides shared infrastructure and common behaviors across the IDE offerings.

Translation information for IBM software can be found at

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity/index.jsp>

### **Section 508 of the US Rehabilitation Act**

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IBM Rational Developer for the Enterprise is capable as of July 5, 2013, 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 US Section 508 Voluntary Product Accessibility Template (VPAT), containing details on the products accessibility compliance, can be requested at

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## Availability of national languages

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Product description	Language	General availability date
IBM RDE V9.0.0	Multilingual (French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, English, Italian)	July 5, 2013
RDZ V9.0.0	Multilingual (French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, English, Italian)	July 5, 2013
Ratl Application Developer V9.0.0	Multilingual (French, Russian, Arabic, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, Hungarian, English, Czech, Italian, Polish)	July 5, 2013
Ratl Business Developer V9.0.0	Multilingual (French, Russian, Arabic, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, Hungarian, English, Czech, Italian, Polish)	July 5, 2013

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## Program number

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Program number	VRM	Program name
5724-J19	9.0.0	IBM Rational Application Developer for WebSphere Software
5724-S50	9.0.0	IBM Rational Business Developer
5724-T07	9.0.0	IBM Rational Developer for System z
5725-K78	9.0.0	IBM Rational Developer for the Enterprise

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## Education support

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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
RN110	COBOL with IBM Rational Developer for System z V8.0.3	Classroom
CI71	Connecting CICS to WebSphere Application Server via CICS Transaction Gateway	Classroom
SW737	Connecting the Enterprise	Self-study
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 website

<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

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

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## Publications

No publications are shipped with these products.

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 US) 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

### Specified operating environment

#### *Software requirements*

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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Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express® . Product upgrades and technical support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

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

## Security, auditability, and control

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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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## Ordering information

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

[http://www.ibm.com/partnerworld/page/svp\\_authorized\\_portfolio](http://www.ibm.com/partnerworld/page/svp_authorized_portfolio)

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

<http://www.ibm.com/partnerworld/wps/bplocator/>

## Product information

Licensed function title	Product group	Product category
IBM Rational Application Developer for WebSphere Software	Design and Construction	Design and Construction
IBM Rational Business Developer	Design and Construction	Design and Construction
IBM Rational Developer for System z	Rational for System z Tools	Rational for System z Tools
IBM Rational Developer for the Enterprise	Rational for System z Tools	Rational for System z Tools
IBM Rational Developer for zEnterprise	Rational for System z Tools	Rational for System z Tools
IBM Rational Migration Extension for Rich UI	Design and Construction	Design and Construction
Program name	PID number	Charge unit description
IBM Rational Application Developer for WebSphere Software	5724-J19	Per Floating User Single Install

IBM Rational Application Developer for WebSphere Software	5724-J19	Per Authorized User for System z
IBM Rational Application Developer for WebSphere Software	5724-J19	Per Floating User Single Install for System z
IBM Rational Application Developer for WebSphere Software	5724-J19	Per Authorized User
IBM Rational Business Developer	5724-S50	Per Floating User for System z
IBM Rational Business Developer	5724-S50	Per Authorized User for System z
IBM Rational Business Developer	5724-S50	Per Floating User
IBM Rational Business Developer	5724-S50	Per Authorized User
IBM Rational Developer for System z	5724-T07	Per Authorized User
IBM Rational Developer for System z	5724-T07	Per Floating User Single Install
IBM Rational Developer for the Enterprise	5725-K78	Per Floating User Single Install for System z
IBM Rational Developer for the Enterprise	5725-K78	Per Floating User Single Install
IBM Rational Developer for the Enterprise	5725-K78	Per Authorized User
IBM Rational Developer for the Enterprise	5725-K78	Per Authorized User for System z
IBM Rational Developer for zEnterprise®	5724-T07	Per Floating User for System z
IBM Rational Developer for zEnterprise	5724-T07	Per Authorized User
IBM Rational Developer for zEnterprise	5724-T07	Per Authorized User for System z
IBM Rational Developer for zEnterprise	5724-T07	Per Floating User
IBM Rational Migration Extension for Rich UI	5724-S50	Per Resource Value Unit for System z
IBM Rational Migration Extension for Rich UI	5724-S50	Per Resource value Unit

## Charge metrics definitions

### Authorized User

Authorized User is a unit of measure by which the program can be licensed. An *Authorized User* is a unique person who is given access to the program. The program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User accessing the program in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

**Note:** Some programs may be licensed where devices are considered users. In that case, the following applies. Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate user of the program and requires an entitlement as if that device were a person.

## Floating User Single Install

Floating User Single Install is a unit of measure by which the program can be licensed. A *Floating User* is a person who is accessing the program at any particular point in time. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. The program may be installed on any number of computers or servers, but if the Floating User simultaneously accesses more than one Install of the program, the Floating User requires a separate entitlement for each such Install. Licensee must obtain separate entitlements for each Floating User simultaneously accessing the program on each Install in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means.

**Note:** Some programs may be licensed where devices are considered users. In that case the following applies: Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate User of the program and requires an entitlement as if that device were a person.

## Resource Value Unit (RVU)

RVU is the unit of measure by which this program is licensed. RVU entitlements are based on the quantity of a specific designated measurement for the given program. A Proof of Entitlement (PoE) must be obtained for the appropriate number of RVUs required for your environment as defined by the specific program terms. The RVU entitlements are specific to the program and may include, but are not limited to the following: client devices, data source records, messages, and servers, and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program. To understand these benefits of RVU licensing, and to determine how many RVUs to obtain for the program, contact your IBM representative.

## Passport Advantage program licenses

### IBM Rational Business Developer

Part description	Part number
IBM Rational Migration Extension for Rich UI	
Rat1 Mig Ext for Rich UI Per Resource Value Unit Annual SW S&S Rnw1	E07WYLL
Rat1 Mig Ext for Rich UI Per Resource Value Unit Lic + SW S&S 12 Mo	D0BD9LL
Rat1 Mig Ext for Rich UI Per Resource Value Unit SW S&S Reinststate 12 Mo	D0BDALL

### IBM Rational Business Developer

Part description	Part number
IBM Rational Business Developer	
Rat1 Business Developer Per Authorized User Annual SW S&S Rnw1	E03SULL
Rat1 Business Developer Per Authorized User Init1 FT Lic+S&S 12 Mo	D610CLL
Rat1 Business Developer Per Authorized User Lic + SW S&S 12 Mo	D6105LL
Rat1 Business Developer Per Authorized User SW S&S Reinststate 12 Mo	D6106LL
Rat1 Business Developer Per Authorized User Subsq FT Lic+S&S 12 Mo	E03SYLL
Rat1 Business Developer Per Authorized User Term License SW S&S (TLA) 12 Mo	D610GLL
Rat1 Business Developer Per Floating User Annual SW S&S Rnw1	E03STLL
Rat1 Business Developer Per Floating User Init1 FT Lic+S&S 12 Mo	D0BJ6LL

Ratl Business Developer Per Floating User Lic + SW S&S 12 Mo	D6103LL
Ratl Business Developer Per Floating User SW S&S Reinstate 12 Mo	D6104LL
Ratl Business Developer Per Floating User Subsq FT Lic+S&S 12 Mo	E0823LL
Ratl Business Developer Per Floating User Term License SW S&S (TLA) 12 Mo	D610FLL

### IBM Rational Developer for System z

Part description	Part number
IBM Rational Developer for zEnterprise	
RDzEnterprise Per Authorized User Annual SW S&S Rnw1	E0ARJLL
RDzEnterprise Per Authorized User Initl FT Lic+S&S 12 Mo	D0GU9LL
RDzEnterprise Per Authorized User Lic + SW S&S 12 Mo	D0GRMLL
RDzEnterprise Per Authorized User SW S&S Reinstate 12 Mo	D0GRNLL
RDzEnterprise Per Authorized User Subsq FT Lic+S&S 12 Mo	E0ASTLL
Rat Dev zEn Flt User Sgl Inst Annual SW S&S Rnw1	E0ASRLL
Rat Dev zEn Flt User Sgl Inst Initl FT Lic+S&S 12 Mo	D0GUBLL
Rat Dev zEn Flt User Sgl Inst Lic + SW S&S 12 Mo	D0GU3LL
Rat Dev zEn Flt User Sgl Inst SW S&S Reinstate 12 Mo	D0GU4LL
Rat Dev zEn Flt User Sgl Inst Subsq FT Lic+S&S 12 Mo	E0ASVLL

### IBM Rational Developer for System z

Part description	Part number
IBM Rational Developer for System z	
RDz Per Authorized User for System z Annual SW S&S Rnw1	E0DWPLL
RDz Per Authorized User for System z Initl FT Lic+S&S 12 Mo	D0PZJLL
RDz Per Authorized User for System z Lic + SW S&S 12 Mo	D0PZBLL
RDz Per Authorized User for System z SW S&S Reinstate 12 Mo	D0PZCLL
RDz Per Authorized User for System z Subsq FT Lic+S&S 12 Mo	E0DWRLL
RDz Per Floating User Single Inst for System z Annual SW S&S Rnw1	E0DWQLL
RDz Per Floating User Single Inst for System z Initl FT Lic+S&S 12 Mo	D0PZKLL
RDz Per Floating User Single Inst for System z Lic + SW S&S 12 Mo	D0PZELL
RDz Per Floating User Single Inst for System z SW S&S Reinstate 12 Mo	D0PZFLL
RDz Per Floating User Single Inst for System z Subsq FT Lic+S&S 12 Mo	E0DWSLL

### IBM Rational Developer for the Enterprise

Part description	Part number
IBM Rational Developer for the Enterprise	
IBM RDE Per Authorized User Annual SW S&S Rnw1	E0HNLLL
IBM RDE Per Authorized User Initl FT Lic+S&S 12 Mo	1112222
IBM RDE Per Authorized User Lic + SW S&S 12 Mo	D0ZQ9LL
IBM RDE Per Authorized User SW S&S Reinstate 12 Mo	D0ZQDLL
IBM RDE Per Authorized User Subsq FT Lic+S&S 12 Mo	3334444
IBM RDE Per Floating User Single Inst Annual SW S&S Rnw1	E0HNLLL
IBM RDE Per Floating User Single Inst Initl FT Lic+S&S 12 Mo	D0ZRILL
IBM RDE Per Floating User Single Inst Lic + SW S&S 12 Mo	D0ZQBLL



IBM RDE Per Floating User Single Inst SW S&S Reinstate 12 Mo	D0ZQFLL
IBM RDE Per Floating User Single Inst Subsq FT Lic+S&S 12 Mo	E0HNQLL

### Rational Application Developer

Part description	Part number
IBM Rational Application Developer for WebSphere Software	
Ratl Application Dev for WebSphere SW Auth User Annual SW S&S Rnw1	E01MJLL
Ratl Application Dev for WebSphere SW Auth User Initl FT Lic + SW S&S 12 Mo	D54SDLL
Ratl Application Dev for WebSphere SW Auth User Lic + SW S&S 12 Mo	D54N4LL
Ratl Application Dev for WebSphere SW Auth User Subsq FT Lic + SW S&S 12 Mo	D54SELL
Ratl Application Dev for WebSphere SW Authusr SW S&S Reinstate 12 Mo	D54N5LL
Ratl Application Dev for WebSphere SW Authuser Term Lic + SW S&S 12 Mo	D54NALL
Ratl Application Dev for WebSphere SW FU SnglInst SW S&S Reinstate 12 Mo	D54NCLL
Ratl Application Dev for WebSphere SW FU SnglInst Term Lic + SW S&S 12 Mo	D54NGLL
Ratl Application Dev for WebSphere SW FltUser SnglInst Annual SW S&S Rnw1	E01MKLL
Ratl Application Dev for WebSphere SW FltUser SnglInst Lic + SW S&S 12 Mo	D54NBLL

### Passport Advantage trade-up licenses

#### IBM Rational Business Developer

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

#### IBM Rational Developer for System z

Precursor product	Trade-up product	Trade-up part number
IBM Rational Developer for System z		
Competitive User	RDz Per AU for System z tradeup from Competitor  Trade Up Lic + SW S&S 12 Mo	D0PZDLL
IBM Rational Developer for System z	RDz Per FUSI for System z trade up from RDz AU Trade Up Lic + SW S&S 12 Mo	D0PZGLL

## IBM Rational Developer for System z

Precursor product	Trade-up product	Trade-up part number
IBM Rational Developer for zEnterprise		
IBM Rational Application Developer	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3ILL
IBM Rational Developer for Power®	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3JLL
IBM Rational Business Developer	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3KLL
Competitive User	RDz Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3GLL
IBM Rational Developer for System z	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3HLL
IBM Rational Developer for zEnterprise Auth User	RDzEnterprise Float User from RDzEnterprise AU Trade Up Lic + SW S&S 12 Mo	D0GU5LL

## IBM Rational Developer for the Enterprise

Precursor product	Trade-up product	Trade-up part number
IBM Rational Developer for the Enterprise		
IBM Rational Developer for AIX and Linux AIX COBOL Edition Authorized User	IBM RDE Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0ZQKLL
IBM Rational Developer for System z Authorized User	IBM RDE Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0ZQMLL
Competitor	IBM RDE Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0ZRELL
IBM Rational Application Developer for WebSphere Software Authorized User	IBM RDE Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0ZQHLL
IBM Rational Business Developer Authorized User	IBM RDE Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0ZQILL
IBM Rational Developer for AIX and Linux C/C++Edition Authorized User	IBM RDE Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0ZQJLL
IBM Rational Developer for System z Floating User Single Install	IBM RDE Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0ZR2LL
IBM Rational Developer for the Enterprise Authorized User	IBM RDE Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0ZR3LL
Competitor	IBM RDE Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0ZRGLL
IBM Rational Developer for AIX and Linux AIX COBOL Edition FU	IBM RDE Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0ZR0LL

IBM Rational Application Developer for WebSphere Software FU	IBM RDE Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0ZQXLL
IBM Rational Business Developer FU	IBM RDE Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0ZQYLL
IBM Rational Developer for AIX and Linux C/C++Edition FU	IBM RDE Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0ZQZLL

### Rational Application Developer

Precursor product	Trade-up product	Trade-up part number
IBM Rational Application Developer for WebSphere Software		
Competitive Products A	RAD Auth Usr from Competitive (List 1) Trdup Lic + SW S&S 12 Mo	D54N8LL
Competitive Products B	RAD Auth Usr from Competitive (List 2) Trdup Lic + SW S&S 12 Mo	D54N9LL
IBM Rational Application Developer Standard Edition for WebSphere	RAD Auth Usr from Rose Dev for Java Auth Usr Trdup Lic + SW S&S 12 Mo	D54N6LL
Rational Rose Developer for Java	RAD Auth Usr from WSSD Usr or RWD Auth Usr Trdup Lic + SW S&S 12 Mo	D54N7LL
Competitive Products A	RAD FloatUser Single Install from RWD Flt Usr Trdup Lic + SW S&S 12 Mo	D54NELL
IBM Rational Application Developer Standard Edition for WebSphere	RAD FltUsr SingleInstall from Competitive Products Trdup Lic + SW S&S 12 Mo	D54NZLL
Rational Rose Developer for Java	RAD FltUsr SnglInst from WSAD User or RAD Ath User Trdup Lic + SW S&S 12 Mo	D54NFLL
RWD Floating User	RAD FltUsr SnglInst from Rose Dev for Java Flt Usr Trdup Lic + SW S&S 12 Mo	D54NDLL
WSSD Usr or RWD Auth Usr	Ratl App Dev for WebSphere AuthUser from RAD SE AU Trdup Lic + SW S&S 12 Mo	D0DZPLL
WSAD User or RAD Authorized User	Ratl App Dev for WebSphere FU SnglInst from RAD SE Trdup Lic + SW S&S 12 Mo	D0DZNLL

### Passport Advantage supply

Program name/description	Part number
IBM RDE V9.0.0	
IBM Rational Developer for the Enterprise V9.0 ML MP MEDIA PACK	BT0IJML
RDz V9.0.0	
IBM Rational Developer for System z V9.0 ML MP MEDIA PACK	BT0IHML
Ratl Application Developer V9.0.0	
IBM Rational Application Developer for WS Software V9.0 MP ML Media Pack	BT0IFML
Ratl Business Developer V9.0.0	
IBM Rational Business Developer V9.0 ML MP MEDIA PACK	BT0IIML

## Passport Advantage customer: Media pack entitlement details

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

### IBM Rational Application Developer V9.0.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Application Developer for WebSphere Software Authorized User	IBM Rational Application Developer for WS Software V9.0 MP ML Media Pack	BT0IFML
IBM Rational Application Developer for WebSphere Software Authorized User for System z	IBM Rational Application Developer for WS Software V9.0 MP ML Media Pack	BT0IFML
IBM Rational Application Developer for WebSphere Software Floating User Single Install	IBM Rational Application Developer for WS Software V9.0 MP ML Media Pack	BT0IFML
IBM Rational Application Developer for WebSphere Software Floating User Single Install for System z	IBM Rational Application Developer for WS Software V9.0 MP ML Media Pack	BT0IFML

### IBM Rational Business Developer V9.0.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Business Developer Authorized User	IBM Rational Business Developer V9.0 ML MP MEDIA PACK	BT0IIML
IBM Rational Business Developer Floating User	IBM Rational Business Developer V9.0 ML MP MEDIA PACK	BT0IIML
IBM Rational Business Developer for System z per Authorized User	IBM Rational Business Developer V9.0 ML MP MEDIA PACK	BT0IIML
IBM Rational Business Developer for System z per Floating User	IBM Rational Business Developer V9.0 ML MP MEDIA PACK	BT0IIML

### IBM Rational Developer for the Enterprise V9.0.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Developer for the Enterprise per Authorized User	IBM Rational Developer for the Enterprise V9.0 ML MP MEDIA PACK	BT0IJML
IBM Rational Developer for the Enterprise per Authorized User for System z	IBM Rational Developer for the Enterprise V9.0 ML MP MEDIA PACK	BT0IJML
IBM Rational Developer for the Enterprise per Floating User Single Install	IBM Rational Developer for the Enterprise V9.0 ML MP MEDIA PACK	BT0IJML
IBM Rational Developer for the Enterprise per Floating User Single Install for System z	IBM Rational Developer for the Enterprise V9.0 ML MP MEDIA PACK	BT0IJML

## IBM Rational Developer for System z V9.0.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Developer for System z per Authorized User for System z	IBM Rational Developer for System z V9.0 ML MP MEDIA PACK	BT0IHML
IBM Rational Developer for System z per Floating User Single Install for System z	IBM Rational Developer for System z V9.0 ML MP MEDIA PACK	BT0IHML

### Cross-platform products

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#### ***Cross-platform products for use on System z***

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

#### **IBM Rational Business Developer**

Part description	Part number
IBM Rational Migration Extension for Rich UI Ratl Mig Ext for Rich UI Per Resource VU for System z Annual SW S&S Rnw1	E07WZLL
Ratl Mig Ext for Rich UI Per Resource VU for System z Lic + SW S&S 12 Mo	D0BDBLL
Ratl Mig Ext for Rich UI Per Resource VU for System z SW S&S Reinstate 12	D0BDCLL

#### **IBM Rational Business Developer**

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

## IBM Rational Developer for System z

Part description	Part number
IBM Rational Developer for zEnterprise	
RDzEnterprise Per Auth.User for System z Annual SW S&S Rnw1	E0ARLLL
RDzEnterprise Per Auth.User for System z Init1 FT Lic+S&S 12 Mo	DOGUALL
RDzEnterprise Per Auth.User for System z Lic + SW S&S 12 Mo	DOGRPLL
RDzEnterprise Per Auth.User for System z SW S&S Reinstate 12 Mo	DOGRSLL
RDzEnterprise Per Auth.User for System z Subsq FT Lic+S&S 12 Mo	E0ASULL
Rat Dev zEn Flt User Sgl Inst Sys z Annual SW S&S Rnw1	E0ASSLL
Rat Dev zEn Flt User Sgl Inst Sys z Init1 FT Lic+S&S 12 Mo	DOGUCLL
Rat Dev zEn Flt User Sgl Inst Sys z Lic + SW S&S 12 Mo	DOGU6LL
Rat Dev zEn Flt User Sgl Inst Sys z SW S&S Reinstate 12 Mo	DOGU7LL
Rat Dev zEn Flt User Sgl Inst Sys z Subsq FT Lic+S&S 12 Mo	E0ASWLL

## IBM Rational Developer for the Enterprise

Part description	Part number
IBM Rational Developer for the Enterprise	
IBM RDE Per Auth.User for System z Annual SW S&S Rnw1	E0HNMLL
IBM RDE Per Auth.User for System z Lic + SW S&S 12 Mo	D0ZQALL
IBM RDE Per Auth.User for System z SW S&S Reinstate 12 Mo	D0ZQELL
IBM RDE Per Float User Sngl In Systemz Annual SW S&S Rnw1	E0HNPLL
IBM RDE Per Float User Sngl In Systemz Init1 FT Lic+S&S 12 Mo	D0ZRJLL
IBM RDE Per Float User Sngl In Systemz Lic + SW S&S 12 Mo	D0ZQCLL
IBM RDE Per Float User Sngl In Systemz SW S&S Reinstate 12 Mo	D0ZQGLL
IBM RDE Per Float User Sngl In Systemz Subsq FT Lic+S&S 12 Mo	E0HNRLl

## Rational Application Developer

Part description	Part number
IBM Rational Application Developer for WebSphere Software	
Rat1 Application Dev for WebSphere SW AU for zSer Annual SW S&S Rnw1	E035NLL
Rat1 Application Dev for WebSphere SW AU for zSer Lic + SW S&S 12 Mo	D59WCLL
Rat1 Application Dev for WebSphere SW AU for zSer SW S&S Reinstate 12 Mo	D59WDLl
Rat1 Application Dev for WebSphere SW FU SI Sysz SW S&S Reinstate 12 Mo	D59WBLL
Rat1 Application Dev for WebSphere SW FU SnglInst Sysz Annual SW S&S Rnw1	E035MLL
Rat1 Application Dev for WebSphere SW FU SnglInst Sysz Lic + SW S&S 12 Mo	D59WALL

### ***Cross-platform product for use on System z IFL engines or zEnterprise BladeCenter Extension***

Order the part numbers that follow when the product is intended to run on the zEnterprise BladeCenter® Extension or Linux operating system on System z IFL engines. If the product is not intended to run in these environments, 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 zEnterprise		
IBM Rational Application Developer	RDZ Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0Q3NLL
IBM Rational Developer for Power	RDZ Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0Q3PLL
IBM Rational Business Developer	RDZ Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0Q3QLL
Competitive User	RDZ Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0Q3LLL
IBM Rational Developer for System z	RDZ Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0Q3MLL
IBM Rational Developer for zEnterprise Auth User for Sys z	RDzEnterprise FUZ from RDzEnterprise AUZ Trade Up Lic + SW S&S 12 Mo	D0GU8LL

### IBM Rational Developer for the Enterprise

Precursor product	Trade-up product	Part number
IBM Rational Developer for the Enterprise		
IBM Rational Developer for System z Authorized User	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQVLL
IBM Rational Developer for AIX and Linux AIX COBOL Edition Authorized User	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQTLL
Competitor	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZRFL
IBM Rational Developer for System z Authorized User for System z	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQWLL
IBM Rational Developer for AIX and Linux C/C++ Edition Authorized User	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQSLL
IBM Rational Application Developer for webSphere Software AU for system z	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQPLL
IBM Rational Application Developer for webSphere Software Authorized User	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQNLL
IBM Rational Business Developer Authorized User for System z	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQRLL
IBM Rational Business Developer Authorized User	IBM RDE Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0ZQQLL

IBM Rational Developer for System z Floating User Single Install for System z	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZRCLL
IBM Rational Developer for AIX and Linux AIX COBOL Edition FU	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZR9LL
IBM Rational Developer for the Enterprise Authorized User for System z	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZRDLL
IBM Rational Developer for System z Floating User Single Install	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZRBLL
Competitor	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZRHLL
IBM Rational Application Developer for WebSphere Software FU Sys z	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZR5LL
IBM Rational Application Developer for WebSphere Software FU	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZR4LL
IBM Rational Business Developer FU	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZR6LL
IBM Rational Developer for AIX and Linux C/C++Edition FU	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZR8LL
IBM Rational Business Developer FU for System z	IBM RDE Per Float User Sngl In Systemz Trade Up Lic + SW S&S 12 Mo	D0ZR7LL

## Rational Application Developer

Precursor product	Trade-up product	Part number
IBM Rational Application Developer for WebSphere Software		
Competitive Products A	RAD Auth Usrz from Competitive (List 1) Trdup Lic + SW S&S 12 Mo	D59WKLL
Competitive Products B	RAD Auth Usrz from Competitive (List 2) Trdup Lic + SW S&S 12 Mo	D59WLLL
IBM Rational Application Developer Standard Edition for WebSphere	RAD Auth Usrz from Rose Dev Java Auth Usr Trdup Lic + SW S&S 12 Mo	D59WILL
Rational Rose Developer for Java	RAD Auth Usrz from WSSD Auth Usr or RWD Auth Usr Trdup Lic + SW S&S 12 Mo	D59WJLL
Competitive Products A	RAD FU SnglInst Sysz frm Rose Dev for Java Flt Usr Trdup Lic + SW S&S 12 Mo	D59WELL
IBM Rational Application Developer Standard Edition for WebSphere	RAD FU SnglInst Sysz from Competitive Trdup Lic + SW S&S 12 Mo	D59WHLL
Rational Rose Developer for Java	RAD FU SnglInst Sysz from RWD Flt Usr Trdup Lic + SW S&S 12 Mo	D59WFLL
RWD Floating User	RAD FU SnglInst Sysz from WSAD or RAD Ath User Trdup Lic + SW S&S 12 Mo	D59WGLL



WSSD User or RWD Auth User	Ratl App Dev for WebSphere AU System z from RAD SE Trdup Lic + SW S&S 12 Mo	D0DZRL
WSAD User or RAD Authorized User	Ratl App Dev for WebSphere FU SI Sysz from RAD SE Trdup Lic + SW S&S 12 Mo	D0DZQL

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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 numbers**

Program name	Program number	Form number
IBM Rational Business Developer	5724-S50	L-JYUU-95SAVC
IBM Rational Developer for System z	5724-T07	L-DCWN-94MSN9
IBM Rational Developer for the Enterprise	5725-K78	L-DCWN-94MSN9
Rational Application Developer	5724-J19	L-MCHN-95RN5V

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

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

### **Limited warranty applies**

Yes

### **Limited warranty**

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

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

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

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

### **Program technical support**

Technical support of a program product version or release will be available for a minimum of three years from the general availability date, as long as your Software Maintenance is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Maintenance also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

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### **Money-back guarantee**

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

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### **Volume orders (IVO)**

No

### **Passport Advantage applies**

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

No

### ***Educational allowance available***

Not applicable.

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IT system security involves protecting systems and information through 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 comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

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## **IBM Electronic Services**

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Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure

Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa\_main", and select "Configure Electronic Service Agent ." In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent , refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

## **Benefits**

**Increased uptime** The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

## **Security**

The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM . The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM . The customer's business applications or business data is never transmitted to IBM .

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## **Customized support**

Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support website at

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

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For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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