



Version 9.1 of IBM Rational Integrated Development Environment offerings introduces significant new capabilities

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At a glance

The version 9.1 releases of Rational® Application Developer for WebSphere® Software, Rational Developer for System z®, Rational Business Developer, and Rational Developer for the Enterprise deliver significant new capabilities. Highlights include:

- Rational Application Developer for WebSphere Software: Integration of Apache Cordova tools for developing hybrid mobile applications
- Rational Application Developer for WebSphere Software: Improved workbench startup time
- Rational Developer for System z : Integrated Debugger now supports PL/1, C/C++, IMS™ TM, and DB2® Stored Procedures; code coverage feature now uses the Integrated Debugger technology, so additional prerequisite software is no longer required to take advantage of this functionality
- Rational Developer for System z : Control flow diagrams have been implemented for PL/1
- Rational Developer for System z : The zUnit unit testing framework has been enhanced with capabilities for more fully automating creation of COBOL test cases and test data
- Rational Developer for System z : New support for JSON in the Enterprise Service Tools (EST), simplifying the use of existing CICS® services by mobile applications
- Rational Developer for System z : Improved integration with Rational Team Concert™ including effective remote project support
- Rational Business Developer: Ability to deploy EGL Web and REST based applications to the Liberty Profile in CICS Translation Server V5.1
- Rational Business Developer: New EGL language annotations
- Rational Business Developer: Additional Dojo widget capabilities
- Rational Business Developer: New Extension Points and APIs

Additional key product information for Version 9.1 of IBM® Rational Integrated Development Environment offerings:

1. Changes are being made to the way that Authorized User activation kits are fulfilled for the Rational Integrated Development Environments. For details, refer to

<http://www.ibm.com/support/docview.wss?uid=swg27041656>

2. Some of these products may include as a convenience, third-party open source software components that are provided as is. Refer to the [Description](#) section for details.
3. Refer to companion Software Announcement [214-188](#), dated April 28, 2014, for information about version 9.1 of the other offerings in the Rational IDE portfolio, including Rational Developer for i, and Rational Developer for AIX® and Linux™. Those offerings are included as part of the Rational Developer for the Enterprise offering, which is a multiproduct bundle.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL.

Overview

The IBM Rational Integrated Development Environment (IDE) offerings are designed to optimize the activities of software design, creation, evolution, initial quality assurance, and maintenance in the context of a DevOps practice. Their purpose is to help you realize the objectives of DevOps, including:

- **Speed:** Deliver more, faster.
- **Business agility:** Make your developers' skills more portable so that you are able to pivot more quickly in response to rapidly changing business conditions and requirements; provide them with tools for rapidly modernizing heritage systems of record and developing multichannel (mobile) applications that use a wide variety of back-end systems.
- **Efficiency:** Eliminate waste, in particular, waste introduced by software defects and inefficient collaboration.

The IDEs provide these high-level capabilities:

- (Speed, agility) Application comprehension and impact analysis tools that help you make decisions more quickly and shorten learning curves.
- (Speed) Intelligent editors, outline views, content assist, auto-completion, instantaneous syntax validation, context help, and other capabilities that help you implement your decisions more quickly.
- (Business agility) Tools for developing multitier, multichannel (mobile) enterprise applications that leverage a wide variety of back-end systems.
- (Business agility) A variety of tools and techniques for maintaining, extending, and modernizing COBOL, RPG, PL/1, EJB, and other applications.
- (Business agility) A common developer user experience across a breadth of languages, programming models, and platforms.
- (Efficiency) Initial code quality tools such as code-generating wizards, static code analysis, code coverage analysis, profiling, unit test automation, cross-language/cross-platform debugger and a team debugging capability to help you minimize defect introduction, find introduced defects quickly, and fix them efficiently.
- (Efficiency) Capabilities to help optimize applications for specific target platforms and middleware, so you can make the most efficient use of infrastructure and maximize your return on investments in it.
- (Efficiency) Integrations with the broader IBM DevOps solution to provide developers with collaboration tools and visibility to activities and status across the lifecycle from planning and requirements through change and configuration management, downstream testing and deployment, and customer feedback.

This announcement covers the following IDE offerings:

- Rational Application Developer for WebSphere Software
- Rational Developer for System z
- Rational Business Developer
- Rational Developer for the Enterprise

Key prerequisites

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

Planned availability date

- May 23, 2014: Electronic availability
- June 6, 2014: Media availability

Description

Additional key product information for Version 9.1 of IBM Rational Integrated Development Environment offerings:

1. Changes are being made to the way that Authorized User activation kits are fulfilled for the Rational Integrated Development Environments. For details, refer to <http://www.ibm.com/support/docview.wss?uid=swg27041656>
2. Some of these products may include, as part of their Bills of Materials (installable images), third-party open source software components that owners of the products commonly use in combination with the products. This is done purely as a convenience to the customer. These components are provided as is and IBM does not assume any responsibility for technical support of these components. Technical support of these components is the responsibility of the open source software communities that produce them. Customers are responsible to seek technical support directly from those communities. Also, such third-party components might not conform to IBM's own internal standards for software accessibility and internationalization (for example, such components might be English-only). To the extent that IBM provides internally produced software that implements specific points of integration with such third-party components, or software that provides support for installing such third-party components, IBM does assume responsibility for technical support of the integration and/or installation software. At this time, in the products that are the subject of this announcement, these third-party components are included as is in the products' Bills of Materials:
 - (Eclipse) eGit
 - (Apache) Cordova

Rational Application Developer for WebSphere Software

Rational Application Developer for WebSphere Software core capabilities

Rational Application Developer is an award-winning development environment that can be used to target a variety of application servers, databases, and other middleware, but is optimized for WebSphere Application Server and Liberty Profile (a simplified lightweight runtime for web and OSGi applications), WebSphere Portal Server, and IBM PureApplication® System. It provides an environment for development of Java™ EE, SOA, OSGi, Cloud, Web 2.0, Mobile Web, Hybrid Mobile, Portal, SCA, SIP, and Modern batch applications. In addition to code creation tools it supports unit testing using embedded test servers, and it provides problem determination and code analysis tools for assuring delivery of high-quality applications.

Among the key capabilities provided by V9.0 of Rational Application Developer for WebSphere Software that continue to be provided in V9.1:

- 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, JQuery, HTML5, CSS3, and REST services.
- Complete IBM Worklight® Developer Edition for developing native mobile, mobile web, and hybrid mobile applications (Worklight server must be purchased separately for running production apps).
- Tools for developing OSGI applications.
- Tools for developing Modern Java batch applications.
- Diagrammatic tools for developing SOA solutions using Service Components Architecture (OASIS SCA 1.1).
- Service Mapping tools.
- Tools for working with system and application patterns supported by IBM Workload Deployer.
- Embedded WebSphere Application Server (including the Liberty profile) and WebSphere Portal Server test environments.
- Tools for developing JAX-WS Web Services targeting Liberty server with core security.
- Tools for targeting and installing user-defined Liberty Features.
- WebSphere adapter support for SAP, PeopleSoft, Siebel, Oracle E-Business Suite, JD Edwards, CICS, and IMS.
- Code review (static analysis) with 200+ predefined rules for coding guidelines and best practices, "Quick Fix" suggestions and an extensible framework that supports addition of custom rules.
- Line-level-code coverage analysis: 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 and used to gate code deliveries, through integration with Rational Team Concert.
- Integration with the Rational Team Concert build system allows for code coverage to be automated in your build verification tests.
- Run-time analysis tools including memory leak detection, thread lock detection, user defined probes, and performance analysis.
- Collaborative debugging (based on integrations with Rational Team Concert) that enables teams to share live debug sessions between members.

Rational Application Developer for WebSphere Software new capabilities in V9.1

- Support for latest updates to WebSphere Application Server and Liberty Profile versions 8.5.5.x.
- Integration of Apache Cordova tools for developing hybrid mobile applications that do not depend on an IBM Worklight runtime environment. Use Rational Application Developer's rich web development capabilities and also easily access the Apache Cordova tools from within the IDE. This complements and streamlines the use of the Cordova mobile development framework.
- Ability to share code coverage statistics between the workbench and command line interface as well as between sessions through new import and export functions. This is designed to facilitate and promote team-based code quality initiatives and governance.
- New tools and simplified approach for using Web Application Bridge to manage contents between web-based content providers and WebSphere Portal. Provides predefined but customizable filters for automatic code generation and deployment.
- Tools for developing Java Server Faces Portlets now exploit Context and Dependency Injection (CDI).
- Improved workbench startup time.
- Updates to supported desktop operating systems, Eclipse fix level, and JDK fix levels.

Rational Application Developer for WebSphere Software deprecations

These capabilities are declared to be deprecated and they might be removed from the product in some future release. Clients who believe they would be adversely

impacted by future removal of these capabilities should inform Rational Client Support, so that their feedback can be considered in future product planning.

- Rational Unified Process (RUP) Process Advisor and Process Browser
- Rational RequisitePro® Integration
- Rational ClearCase® SCM Adapter
- Java Visual Editor
- Tool support for EJB 1.x and 2.x
- Tool support for JSF Widget Library
- Site Designing Portlet

Rational Application Developer for WebSphere Software removals

These capabilities were previously declared to be deprecated and as of V9.1 they have been removed from the product.

- Rational Cloud Toolkit (for Smart Cloud Enterprise, which has been retired and replaced by SoftLayer)

Rational Developer for System z

Rational Developer for System z provides the core capabilities for creating and maintaining z/OS® applications. It runs on developers' desktops and is integrated with the optimizing IBM compilers as well as with server-side explorer and debugger services that run on z/OS. It can also support many development activities while not connected to a System z environment. It uses industry standards to simplify the development and maintenance of:

- Rich client interfaces and web applications
- Traditional terminal interfaces
- Web services
- Back-end business logic developed with COBOL, PL/1, High-Level Assembler, C/C++, Java, JCL, and REXX and deployable to CICS, IMS, DB2, Batch, and z/OS
- Integrated service-oriented architecture (SOA)-based composite applications

Rational Developer for System z integrates with existing System z development processes and tools including those for problem determination, project management, testing solutions, and System z configuration management systems.

As part of the IBM Integrated System z Development and Test (ISDz) solution Rational Developer for z can be combined with the Rational Development and Test Environment for System z (which is 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 x86 platforms. No System z mainframe hardware is needed.

Among the key capabilities provided by V9.0 of Rational Developer for System z that continue to be provided in V9.1:

Application structural analysis and other comprehension tools

- Control flow diagrams for COBOL programs: A graphical representation of the program flow with links to the underlying source and zoom in-out capability
- Data element table showing all the data elements for a given COBOL or PL/1 program being edited and its dependent copy books or include files
- Call Hierarchy for PL/1 showing caller and called relationships of PL/1 procedures in a hierarchical tree view
- Open called programs from within COBOL and PL/1 source

Tools for assuring initial code quality and managing quality risk:

- z/OS Automated Unit Testing Framework (zUnit): A code-driven unit testing framework for Enterprise COBOL and PL/1 applications. Automates execution and verification of Enterprise COBOL and PL/1 unit test cases.
- "Program scope static analysis" for identifying and highlighting potentially unreachable code.
- General static analysis that inspects your code for compliance with rules and best practices. Includes predefined rules and templates for COBOL and PL/1 applications, and a framework with support for building your own custom 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.
- Integrated interactive debugger: Built on an architecture that uses very little System z resource and enables step debugging across complex solutions implemented in multiple languages or deployed to multiple platforms.
- Headless static code review: Enables static analysis to be performed in zero-GUI ("headless") mode, so analysis can be incorporated into automated build and test processes.
- 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.
- Headless LL code coverage: Enables coverage analysis to be performed in zero-GUI ("headless") mode, so analysis can be incorporated into automated build and test processes.

Code creation and editing capabilities:

- Outline-rapid navigation views
- Content assist and real-time syntax checking
- Smart indentation and highlighting
- Refactoring (for example, rename) agents
- Contextual hover information (for example, quick reference for COPY and INCLUDE statements)
- Hyperlink support for COBOL copybooks and PL/1 include files
- Sequence number support in COBOL and PL/1 editors
- Modern JCL editor; JCL Template support; ability to open JCL Procedures from within JCL edit session
- Refresh Copybooks action when working with remote files

Team collaboration and repository support:

Tools for accessing and interacting with a number of the industry's leading source code management and collaborative lifecycle management tools.

- Rational Team Concert.
- CA Endevor Software Change Manager: Access and work with CA Endevor Software Change Manager managed source code, including an Endevor Element Search action, the ability to edit files directly from the repository.
- SCLM Developer Toolkit: Access and work with source code managed by Software Configuration and Library Manager (SCLM).
- Rational ClearCase SCM Adapter: For versioning of software artifacts in ClearCase versioned object bases (VOBs) using snapshot views and dynamic views when ClearCase VOB and view servers are also installed.

Optimized tooling support for CICS :

- 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.

- **BMS Screen Designer:** Enables you to visually create and modify Basic Mapping Support (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:** 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 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 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. The ADM capabilities will be removed from the Rational Developer for System z products at a later date.

IMS tools: for developers working with IMS Transaction Manager and Database (DB)

- **Enterprise Service tools for IMS:** An integrated set of tools that supports modern application architectures and the transformation and reuse of existing IMS application processes, including 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, including the IMS Enterprise Suite 2.2 SOAP Gateway and IMS info 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:** Tools for working with tables, table views, and filters. Create physical database models by reverse engineering database tables or using DDL scripts. 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:** Create, test, and deploy DB2 stored procedures written in COBOL, PL/1, Java, or SQL directly to a z/OS system.

Extensibility features: Adapt and extend the development environment with custom designed tools to match your own architectures, standards, and practices.

- **Resource Access API:** Extend the function of Rational Developer for System z by programmatically accessing and manipulating remote resources.
- **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 graphical user interface (GUI) client that can be used as a framework for accessing and interfacing with custom source control management systems.
- **COBOL Application Model API:** Provides access to the COBOL language elements of your source code, to support creation of custom static analysis rules.

Other capabilities:

- Data editor for QSAM files.
- Supports use of remote SYSLIB (Data set concatenation) for Local projects.
- Code Generation: design tools and wizards for rapidly creating System z application skeletons and logic from UML models or user-provided input.
- Support for Extended Address Volume (EAV) on z/OS.
- Ability to select multiple JCL files and submit them all at once.

Rational Developer for System z new capabilities in version 9.1

- The Integrated Debugger is enhanced to include the following additional language and sub-system support providing full edit/compile/debug capability out of the box.
 - Additional languages: PL/1, C/C++.
 - Additional subsystems: IMS TM, DB2 Stored Procedures
- The code coverage feature now leverages the Integrated Debugger technology, so additional prerequisite software is no longer required to take advantage of this functionality.
- Control flow diagrams: New support for PL/1 including links to the underlying source, zoom in/out capability, and print/export the diagram to a bitmap.
- Static code analysis and custom rule development: New support for PL/1 including predefined rules and expansion of the analysis framework support along with exposure of PL/1 program model AIPs enabling the development of custom PL/1 rules.
- Code Review baseline support: The code review feature is now enhanced with the ability to report violations occurring in newly modified sections of COBOL and PL/1 code without reporting violations which existed in a specified baseline version of the code.
- Unit test automation: zUnit has been enhanced to help reduce the developer's workload when creating COBOL test cases by providing interfaces and wizards for setting test data, generating test data, and generating test cases from test data.
- The CICS TS Feature Pack for Mobile Extensions v1.0 enables you to extend the reach of your existing COBOL, C/C++, and PL/1 programs to mobile devices, without having to make costly changes to your applications. To further leverage that recently introduced capability, the Rational Developer for System z Enterprise Service Tools (EST) feature now provides tools for creating CICS JSON Web Service artifacts in a manner consistent with how EST supports creation of artifacts for COBOL and PL/1 applications that use SOAP as the protocol and XML for data transformation.
- Improved integration with Rational Team Concert including effective remote project support and enhancements in the User Build capability.
- IDE scalability and reliability: Performance improvements have been made to the Remote z/OS Search functionality.

Rational Developer for System z deprecations

These capabilities are declared to be deprecated and they might be removed from the product in some future release. Clients who believe they would be adversely impacted by future removal of these capabilities should inform Rational Client Support, so that their feedback can be considered in future product planning.

- IMS PL/1 Top Down API
- Local syntax check capability
- Rational ClearCase SCM Adapter
- RUP explorer and advisor
- Rational RequisitePro Integration
- IMS Web 2.0 Projects in EST

- Application Deployment Manager capabilities (recommended replacement: CICS Explorer capabilities)
- Web Services Explorer

Rational Developer for System z removals

These capabilities were previously declared to be deprecated and as of V9.1 they have been removed from the product.

- SOAP for CICS Projects in EST (deprecated at version 9.0.1)
- Rational Cloud Toolkit (for Smart Cloud Enterprise, which has been retired and replaced by SoftLayer - deprecated at version 9.0.1)

Rational Business Developer

Rational Business Developer is an integrated development environment for EGL, a programming technology designed to simplify multiplatform 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. EGL aids productivity by allowing the programmer to use a single, consistent programming language to build end-to-end applications including mobile and Web 2.0 based user interfaces, distributed or mainframe based business and database logic, and web services as well as traditional 3270/5250 and batch applications.

Rational Business Developer new capabilities in version 9.1

- Ability to deploy EGL Web and REST based application to the Liberty Profile in CICS Translation Server V5.1.
- New EGL language annotations to enable enhanced user documentation capabilities within EGL code and provide granular control for CICS Transaction IDs to the program level.
- Additional Dojo Widget Capability in Web 2.0 and Mobile such as enhanced DataGrid Capability and a TimePicker Mobile Dojo Widget.
- New Extension Points and APIs for Business Partners to build third party tools.

Rational Business Developer deprecations

These capabilities are declared to be deprecated and they might be removed from the product in some future release. Clients who believe they would be adversely impacted by future removal of these capabilities should inform Rational Client Support, so that their feedback can be considered in future product planning.

- EGL Java Server Faces (JSF) development tools and runtime including JSF project creation wizard. IBM recommends using the EGL Rich User Internet (RUI or Web 2.0) capability for new application development using EGL. Details of JSF-related capabilities that are deprecated: JSF page designer (Page editor, Page Data view, Palette view, Properties view, and "Quick Edit" view); JSF debugger; and the EGL runtime support used to execute EGL JSF applications within web containers. Note: The JSF Widget Library (JWL) which EGL utilized is also deprecated in the Rational Application Developer V8.5.x maintenance stream, as of V8.5.1.

Rational Business Developer removals

These capabilities were previously declared to be deprecated and as of V9.1 they have been removed from the product. Removed in this release means that new development using these features will not be possible. However, existing EGL source code using these features will be marked as deprecated, but generation and deployment is still allowed.

- EGL Portlet development tools and runtime; this includes the EGL Portlet project creation wizard and the PortalLib within the EGL language. IBM recommends

using the EGL Rich User Internet (RUI) or Web 2.0 capability for new application development using EGL.

- Informix® 4GL (I4GL) to EGL migration tools and EGL I4GL related runtime capabilities including: I4GL to EGL migration tools; The I4GL Application Conversion wizard; The I4GL Shared Library Conversion wizard; The Informix Database Schema Extraction wizard.
- EGL Language and runtime support that enable migrated I4GL applications (also known as Console UI in EGL) applications including language elements specific to Console UI applications, such as Window, Menu, ConsoleForm, ConsoleField, Menu and MenuItem. This includes all Console UI application modes including curses, Swing and RCP (Rich Client Platform).
- EGL Plug-in Project creation wizard.
- EGL Integration with Jasper reports including: the JasperReportHandler language element, the tools to enable configuration of Jasper capabilities for EGL projects, and the EGL project creation wizard and project properties page. IBM recommends using EGL support of BIRT for new report development with EGL.

Rational Developer for the Enterprise

Rational Developer for the Enterprise is a "soft bundle" offering comprised of the following offerings which can also be purchased independently:

- Rational Application Developer for WebSphere Software
- Rational Developer for System z
- Rational Developer for I RPG and COBOL Tools
- Rational Developer for AIX and Linux C/C++ Edition
- Rational Developer for AIX and Linux AIX COBOL Edition
- Rational Business Developer

As such, all of the continued and new capabilities, deprecations, and removals associated with the individual products, as described within this announcement and within the companion Software Announcement [214-188](#), dated April 28, 2014, for Rational Developer for i and Rational Developer for AIX and Linux, apply fully to Rational Developer for the Enterprise.

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

Rational Application Developer is capable as of June 6, 2014, 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 on the following website

http://www.ibm.com/able/product_accessibility/index.html

Statement of direction

Joint Statement of Direction for Rational Tools and Compilers to support new Linux on Power® distributions:

IBM intends to make XL C/C++ and XL Fortran compilers available to complement new Linux only based Power Systems built with POWER8™ technology that support the latest Linux distributions such as Ubuntu Server.

IBM also intends to update its integrated development environments (IDEs) to support new Linux distributions and the planned XL C/C++ compiler for the Linux only based Power Systems. Specifics:

IBM intends to update the server components of IBM Rational Developer for AIX and Linux to support new Linux on Power distributions. (The key server components are the debugger agent and the Remote Systems Explorer agent).

IBM intends to update the Rational Agent Controller component, which enables the IDEs to connect to and instrument remote WebSphere Application Server instances, to support WebSphere Application Server running on new Linux on Power distributions. The Remote Agent Controller is packaged as part of these IDEs, all of which support Java/Java EE and Web development for workloads that might be deployed to WebSphere Application Server on Linux on Power Systems :

- Rational Application Developer for WebSphere Software
- Rational Developer for AIX and Linux
- Rational Developer for i RPG and COBOL + Modernization Tools Java Edition
- Rational Developer for the Enterprise

IBM intends to update certain capabilities of the IDEs that are designed to be run either in interactive mode by a developer, or in command line (aka "headless") mode as part of automated build and test processes, to support new Linux on Power distributions. Such capabilities may include, but are not guaranteed to include:

- Line level code coverage analysis
- Static code analysis (rule-based detection of logical coding errors and best-practice deviations)
- Application profiling (performance, memory, and thread analysis)

The general intent is that when used in combination with planned XL C/C++ compiler for the Linux only based Power Systems, the Rational IDEs will serve as key elements of a comprehensive application development, porting, and optimization solution that is optimized for Linux on Power Systems.

For complete information about the Integrated Development Environments including capabilities, value proposition, system requirements, pricing, and access to trial versions, visit

<http://www-03.ibm.com/software/products/en/developer>

Navigate from there to detailed information about the IDEs that interest you.

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

Availability of national languages

Product description	Language	GA date
IBM RDE V9.1.0	Multilingual (French, Korean, Chinese - Simplified,	June 6, 2014

RDz V9.1.0	Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, English, Italian)	Multilingual	June 6, 2014
RatI Application Developer v9.1.0	(French, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, English, Italian)	Multilingual	June 6, 2014
RatI Business Developer v9.1.0	(Russian, Arabic, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, Hungarian, English, Czech, Italian, Polish)	Multilingual	June 6, 2014
	(French, Russian, Arabic, Korean, Chinese - Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese - Traditional, Hungarian, English, Czech, Italian, Polish)		

Program number

Program number	VRM	Program name
5724-J19	9.1.0	IBM Rational Application Developer for webSphere Software
5724-S50	9.1.0	IBM Rational Business Developer
5724-T07	9.1.0	IBM Rational Developer for System z
5725-K78	9.1.0	IBM Rational Developer for

Education support

The following educational offerings are available as listed below:

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	Classroom

SW502

Rational Application
Developer
Web Services Classroom
Development with IBM
Rational Application
Developer

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/>

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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>

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.

Technical information

Specified operating environment

Hardware requirements

Disk Space: Minimum: 2 GB - 5 GB depending upon RAD/WAS configuration;
Recommended: 2 GB - 5 GB depending upon RAD-WAS configuration.

Notes:

- Solid-state drives (SSDs) may further improve performance. High End Configuration (Large Workspace-Multiple WAS): 2 GB - 5 GB depending upon RAD-WAS configuration.
- Additional WAS test environments may require additional disk space.

Display: 1024 x 768 minimum, 1280 x 1024 recommended.

Memory: Minimum: 3 GB RAM; Recommended: 4 GB RAM. High End Configuration (Large Workspace/Multiple WAS): 6 GB RAM

Processor: Minimum: 32-bit (x86) core2 duo (or equivalent); Recommended: 64-bit (x64) core2 quad (or equivalent). High End Configuration (Large Workspace-Multiple WAS): 64-bit (x64) processor, i5 (or equivalent), or better .

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

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.

Security, auditability, and control

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

Ordering information

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<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 Other	Rational for System z Tools
IBM Rational Developer for the Enterprise	Rational for System z Tools	Rational for System z Tools

Program name	PID number	Charge unit description
IBM Rational Application Developer for WebSphere Software	5724-J19	Per Authorized User
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
IBM Rational Application Developer for WebSphere Software	5724-J19	Per Floating User Single Install for System z
IBM Rational Business Developer	5724-S50	Per Floating User for System z
IBM Rational Business Developer	5724-S50	Per Floating User
IBM Rational Business Developer	5724-S50	Per Authorized User
IBM Rational Business Developer	5724-S50	Per Authorized User for System z
IBM Rational Developer for System z	5724-T07	Per Floating User Single Install
IBM Rational Developer for System z	5724-T07	Per Authorized User
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 the Enterprise	5725-K78	Per Floating User Single Install
IBM Rational Developer for the Enterprise	5725-K78	Per Floating User Single Install for System z

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 session

Floating user single session 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. If the person is simultaneously accessing the program multiple times, either on the same or on multiple computers, each separate simultaneous access counts as a separate floating user. The program may be installed on any number of computers or servers, but Licensee must obtain entitlements for the maximum number of simultaneous floating users of the program. Licensee must obtain an entitlement for each simultaneous floating user accessing the program 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.

Floating user

Floating user 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.

Passport Advantage program licenses

IBM Rational Business Developer

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

IBM Rational Business Developer Extension for VSE

Part description	Part number
IBM Rational Business Developer Extension for VSE	
Ratl Business Developer Ext for VSE Auth User Annual SW S&S Rnw1	E0669LL
Ratl Business Developer Ext for VSE Auth User Lic + SW S&S 12 Mo	D07A4LL
Ratl Business Developer Ext for VSE Auth User SW S&S Reinststate 12 Mo	D07A5LL
Ratl Business Developer Ext for VSE Floating User Annual SW S&S Rnw1	E0667LL
Ratl Business Developer Ext for VSE Floating User Lic + SW S&S 12 Mo	D07A0LL
Ratl Business Developer Ext for VSE Floating User SW S&S Reinststate 12 Mo	D07A1LL

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 Reinststate 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 Reinststate 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 Lic + SW S&S 12 Mo	D0ZQ9LL
IBM RDE Per Authorized User SW S&S Reinststate 12 Mo	D0ZQDLL
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 Reinststate 12 Mo	D0ZQFLL
IBM RDE Per Floating User Single Inst Subsq FT Lic+S&S 12 Mo	E0HNQLL

IBM Rational Application Developer for WebSphere Software

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 FU SnglInst SW S&S Reinstate 12 Mo	D54NCLL
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		
IBM Rational Developer for i RPG & COBOL Tools	RDl RPG COBOL +MT JE FUSI TUF RPG COBOL Tools FUSI Trdup Lic + SW S&S 12 Mo	D11PRLL
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 the Enterprise

Precursor product	Trade-up product	Trade-up part number
IBM Rational Developer for the Enterprise		
IBM Rational Developer for	IBM RDE Per Authorized	D0ZQKLL

AIX and Linux AIX COBOL Edition Authorized User	User Trade Up Lic + SW S&S 12 Mo	
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 SnlInst 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 V9.1.0 IBM RATIONAL DEVELOPER FOR THE ENTERPRISE V9.1 MEDIA PACK MP ML	BT0LDML
RDZ V9.1.0 IBM RATIONAL DEVELOPER FOR SYSTEM Z V9.1 MEDIA PACK MP ML	BT0LCML
Ratl Application Developer V9.1.0 IBM Rational Application Developer for WS Software V9.1 MP ML Media Pack	BT0L8ML
Ratl Business Developer V9.1.0 IBM RATIONAL BUSINESS DEVELOPER V9.1 MEDIA PACK MP ML	BT0LBML

Passport Advantage customer: Media pack entitlement details

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

Ratl Business Developer V9.1.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Business Developer Authorized User	IBM RATIONAL BUSINESS DEVELOPER V9.1 MEDIA PACK MP ML	BT0LBML
IBM Rational Business Developer Floating User	IBM RATIONAL BUSINESS DEVELOPER V9.1 MEDIA PACK MP ML	BT0LBML
IBM Rational Business Developer for System z per Authorized User	IBM RATIONAL BUSINESS DEVELOPER V9.1 MEDIA PACK MP ML	BT0LBML
IBM Rational Business Developer for System z per Floating User	IBM RATIONAL BUSINESS DEVELOPER V9.1 MEDIA PACK MP ML	BT0LBML

Ratl Application Developer V9.1.0

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 V9.1 MP ML Media Pack	BT0L8ML
IBM Rational Application Developer for WebSphere Software Authorized User for System z	IBM Rational Application Developer for WS Software V9.1 MP ML Media Pack	BT0L8ML
IBM Rational Application Developer for WebSphere Software Floating User Single Install	IBM Rational Application Developer for WS Software V9.1 MP ML Media Pack	BT0L8ML
IBM Rational Application Developer for WebSphere Software Floating User Single Install for System z	IBM Rational Application Developer for WS Software V9.1 MP ML Media Pack	BT0L8ML

IBM RDE V9.1.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Developer for the Enterprise per Authorized User	IBM RATIONAL DEVELOPER FOR THE ENTERPRISE V9.1 MEDIA PACK MP ML	BT0LDML
IBM Rational Developer for the Enterprise per Authorized User for System z	IBM RATIONAL DEVELOPER FOR THE ENTERPRISE V9.1 MEDIA PACK MP ML	BT0LDML
IBM Rational Developer for the Enterprise per Floating User Single Install	IBM RATIONAL DEVELOPER FOR THE ENTERPRISE V9.1 MEDIA PACK MP ML	BT0LDML
IBM Rational Developer for the Enterprise per Floating User Single Install for System z	IBM RATIONAL DEVELOPER FOR THE ENTERPRISE V9.1 MEDIA PACK MP ML	BT0LDML

RDz V9.1.0

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 V9.1 MEDIA PACK MP ML	BT0LCML
IBM Rational Developer for System z per Floating User Single Install for System z	IBM RATIONAL DEVELOPER FOR SYSTEM Z V9.1 MEDIA PACK MP ML	BT0LCML

Cross-platform products

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 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	D6108LL

S&S Reinstate 12 Mo
 Ratl Business Developer Per Float.User for System z E0824LL
 Subsq FT Lic+S&S 12 Mo

IBM Rational Business Developer Extension for VSE

Part description	Part number
IBM Rational Business Developer Extension for VSE	
Ratl Business Developer Ext for VSE Auth User Sys z SW S&S Reinstate 12 Mo	D07A3LL
Ratl Business Developer Ext for VSE Auth User System z S&S Reinstate 12 Mo	E0668LL
Ratl Business Developer Ext for VSE Auth User System z Lic + SW S&S 12 Mo	D07A2LL
Ratl Business Developer Ext for VSE Float User Sys z SW S&S Reinstate 12 Mo	D079RLL
Ratl Business Developer Ext for VSE Floating User Sys z Lic + SW S&S 12 Mo	D079QLL
Ratl Business Developer Ext for VSE Floating User Sys z Annual SW S&S Rnw1	E0662LL

IBM Rational Application Developer for WebSphere Software

Part description	Part number
IBM Rational Application Developer for webSphere Software	
Ratl Application Dev for webSphere SW AU for zSer Annual SW S&S Rnw1	E035NLL
Ratl Application Dev for webSphere SW AU for zSer Lic + SW S&S 12 Mo	D59WCLL
Ratl Application Dev for webSphere SW AU for zSer SW S&S Reinstate 12 Mo	D59WDLL
Ratl Application Dev for webSphere SW FU SI Sysz SW S&S Reinstate 12 Mo	D59WBLL
Ratl Application Dev for webSphere SW FU SnglInst Sysz Annual SW S&S Rnw1	E035MLL
Ratl 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 and/or zEnterprise® BladeCenter® Extension

Order the part numbers that follow when the product is intended to run on the zEnterprise BladeCenter Extension and/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 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	D0ZRFLl

	S&S 12 Mo	
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	D59WELL

	Rose Dev for Java Flt Usr Trdup Lic + SW S&S 12 Mo	
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 Usr or RWD Auth Usr	Ratl App Dev for WebSphere AU System z from RAD SE Trdup Lic + SW S&S 12 Mo	D0DZRLl
WSAD User or RAD Authorized User	Ratl App Dev for WebSphere FU SI Sysz from RAD SE Trdup Lic + SW S&S 12 Mo	D0DZQLL

Terms and conditions

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

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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 numbers

Program name	Program number	LI number
IBM Rational Business Developer	5724-S50	L-MEVS-9GUNQA / L-MEVS-9GUR2Z
IBM Rational Developer for System z	5724-T07	L-DCWN-9G7J6Y
IBM Rational Developer for the Enterprise	5725-K78	L-DCWN-9G7J6Y
Rational Application Developer	5724-J19	L-MCHN-9GHRH4

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

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

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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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Volume orders (IVO)

No

Passport Advantage applies

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

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No

Educational allowance available

Not applicable.

Statement of good security practices

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.

IBM Electronic Services

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.

More accurate reporting

Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

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

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