



IBM Rational Developer for System z , V8.5 speeds development and provides better compatibility with Interactive System Productivity Facility

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At a glance

Rational® Developer for System z® , V8.5 includes:

- Simplified and streamlined packaging
- Enhanced entry point to the Rational application lifecycle management solution, including close SCM integration and effective remote project support
- Improved application structural analysis, code coverage metrics, and code navigation
- Expanded set of code quality rules and enablement for custom rules for COBOL, plus new code quality rules for PL/I
- New z/OS® Automated Unit Testing Framework
- Ongoing investments in client requirements

Overview

The Rational Developer for System z V8.5 family of products enables companies to accelerate time to market with higher quality solutions while reducing the costs of maintenance over an application's lifetime.

The Rational Developer for System z family 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, z/OS UNIX™ , AIX® , Linux™ for System z , Linux on Power® , and WebSphere® transactional environments. The Rational Developer for System z family integrates with existing System z development processes, including problem determination and System z source management systems.

The Rational Developer for System z family is, at its foundation, an Integrated Development Environment (IDE) providing the essential developer-focused capabilities for the IBM® Integrated Solution for System z Development. Rational Developer for System z , V8.5 offers close integration to a number of the industry's source code management offerings including Rational Team Concert™ .

Rational Developer for System z , V8.5 features improved application structural and quality analysis for the developers to enhance their ability to deliver high-quality COBOL and PL/I applications in a timely fashion that conform to in-house programming guidelines.

The Rational Developer for System z team recognizes the importance of listening to and responding to client feedback, needs, and concerns. Rational Developer for System z , V8.5 includes numerous changes and improvements that stem directly from client interactions, bringing the value of their insight to the broader client community.

The packaging of the Rational Developer for System z family has been greatly simplified.

- The Rational Developer for System z product is now available separately from Rational Application Developer and Rational Business Developer. This provides a smaller product that is easier to download, install, and deploy. This offering is ideal for developers focused on mainframe languages.
- Rational Developer for zEnterprise™ builds on Rational Developer for System z , offering a combination of tools for exploiting traditional System z environments as well as for developing applications for zBX blades running Linux and AIX operating systems.

The Rational Developer for System z family positions businesses to design and construct traditional mainframe applications, web applications, and integrated service-oriented architecture (SOA)-based composites quickly and efficiently. It helps companies enhance existing and create new applications in a more productive manner, with a focus on COBOL, PL/I, C, C++, High-Level Assembler, JCL, REXX, and Java™ .

For ordering, contact Your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255). Reference: AE001

Key prerequisites

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

Planned availability date

- June 15, 2012: Electronic availability
- July 6, 2012: Media availability

Description

The Rational Developer for System z family is, at its foundation, an Integrated Development Environment (IDE) providing the essential developer-focused capabilities for the IBM Integrated Solution for System z Development. Rational Developer for System z , V8.5 offers close integration to a number of the industry's source code management offerings, including Rational Team Concert . Working with Rational Team Concert , Rational Developer for System z , V8.5 has improved its remote project support and recovery handling.

Rational Developer for System z , V8.5 features improved application structural and quality analysis for developers to enhance their ability to deliver high-quality COBOL and PL/I applications in a timely fashion that conform to in-house programming guidelines. Emulating the jUnit techniques available to Java programmers, Rational Developer for System z , V8.5 introduces z/OS Automated Unit Test framework for COBOL and PL/I applications.

The Rational Developer for System z team recognizes the importance of listening and responding to client feedback, needs, and concerns. Rational Developer for System z , V8.5 includes numerous changes and improvements that stem directly from client interactions, bringing the value of their insight to the broader client community.

When Rational Developer for System z is used with the IBM Software Development Platform, developers can extend the environment to meet a broad range of requirements, including change management and testing functions, usable directly from the Rational Developer for System z desktop.

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.

To facilitate Eclipse integration with the Rational V8.5 releases of Rational Developer for System z , IBM is also provides Version 8.5 releases for Rational Business Developer and Host Access Transformation Services (HATS).

Rational Business Developer V8.5 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 .

Some features included in Rational Business Developer V8.5 are:

- Support for WebSphere Application Server versions V8.0 and V8.5
- Support for Apache Tomcat version V7.0
- Support for Dojo 1.7
- Support for 64-bit processors on supported Linux platforms
- Compatibility with Rational Application Developer V8.5
- Compatibility with Rational Team Concert version V4.0

With HATS, you can rapidly transform the end user experience of your 3270 applications running on IBM System z and your 5250 applications running on IBM i without modifying those applications. Using the HATS rules-based transformation technology, the screens of your applications can be rendered with intuitive user interfaces. You can further improve the appearance, usability, and navigation of your applications by creating screen transformations and skip-screen macros.

Some features available in HATS V8.5 are:

- Apache Geronimo application server support
- Android support
- Chrome browser support
- Support for the latest Rational development environments, such as Rational Application Developer for WebSphere Software V8.5 and Rational Developer for i for SOA Construction V8.5
- Support for the latest run times, including WebSphere Application Server V8.5; WebSphere Portal Server V8.0; Eclipse V3.5, V3.6 and V3.7; and Lotus Notes® V8.5.2; and Lotus® Expeditor V6.2.2

The Rational Developer for System z , V8.5 offerings are the follow-on replacement products for WebSphere Studio Enterprise Developer V5; WebSphere Developer for zSeries® V6; WebSphere Developer for System z , V7.0; Rational Developer for System z , V7.1; Rational Developer for System z , V7.5; Rational Developer for System z , V7.6; and Rational Developer for System z , V8.0.x.

Product offerings

The Rational Developer for System z family includes these three offerings:

- Rational Developer for System z , V8.5: Rational Developer for System z helps make traditional mainframe development and integrated mixed workload faster and more efficient.
- Rational Developer for System z enables development of COBOL, PL/I, C++, assembler, and Java applications for batch, CICS , IMS , and DB2 and supports service-oriented architecture (SOA) and Web service creation.
- Rational Developer for zEnterprise , V8.5: Rational Developer for zEnterprise helps make traditional mainframe development, web development, and integrated mixed workload or composite development faster and more efficient even across hardware platforms. Rational Developer for zEnterprise enables development of COBOL, PL/I, C++, assembler, EGL, Java , or Java Enterprise Edition applications for z/OS batch, CICS , IMS , WebSphere , and DB2 and supports SOA and web service creation spanning z/OS , Linux , and AIX environments.

Existing clients for Rational Developer for System z with EGL will have their entitlements moved to the new Rational Developer for System z offering and given equivalent entitlement for Rational Business Developer.

Existing clients for Rational Developer for System z with Java will have their entitlements moved to the Rational Developer for zEnterprise offering.

These migrations ensure the clients have access to their current capabilities while minimizing the impact to their Subscription and Support costs. The Subscription and Support charges will not change until renewal time.

System z application development tools

Development tools for designing, creating, and maintaining mainframe applications

System z integrated development environment: Provides an interactive, workstation-based environment where you can connect to a mainframe and develop mainframe-based applications in COBOL, PL/I, Assembler, C/C++, and Java , as well as workstation-based applications in COBOL, PL/I, and Java . With Rational Developer zEnterprise , you can connect to other environments, such as AIX and Linux and develop workstation-based applications in COBOL, C, C++, and Java .

V8.5 offers a wide-reaching set of enhancements and new capabilities for the developer.

Program analysis

- Control flow diagrams for COBOL programs, a graphical representation of the program flow with links to the underlying source, zoom in/out capability, print/export the diagram to a bitmap (BMP).
- Identify and highlight potential unreachable code using program scope static analysis.
- Show data element table showing all the data elements for a given COBOL program being edited and its dependent copy books as well as for a given PL/I program being edited and its dependent include files.
- Open called programs from within COBOL and PL/I source.
- Show call Hierarchy for PL/I showing caller and callee relationships of PL/I procedures in a hierarchical tree view.

Editor enhancements

- Hyperlink support for COBOL copybooks and PL/I include files
- Sequence number support in COBOL and PLI editors
- Search for occurrences of a given variable

- Highlighting write occurrences in PLI, EXEC SQL, EXEC CICS , and EXEC DLI
- Enhanced outline view for PLI
- Find HEX characters
- Highlighting of IFs, DOs , ENDS, matching parenthesis
- Improved navigation
- JCL Template support
- Refactor -- Rename for PLI
- Indentation support for PLI as part of Formatting

Other

- 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
- Code review: Inspects your code for compliance with rules and best practices. Code review highlights potential problems and recommends code changes for improved quality.

Version 8.5 includes additional predefined rules and templates for COBOL applications and a framework for the client to add their own COBOL rules. Version 8.5 also includes a set of predefined code rules and templates for PL/I applications.

- 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 that allow you to rapidly create System z application code skeleton and logic from UML models or user-provided input.
- z/OS Automated Unit Testing Framework (zUnit, new with Version 8.5): Provides a code-driven unit testing framework for Enterprise COBOL and PL/I. zUnit provides an automated solution for executing and verifying Enterprise COBOL and PL/I unit test cases that are written using the zUnit framework.
- COBOL and PL/I for Windows™ : Enables creation of Windows binaries for COBOL and PL/I programs for use in unit testing applications locally with Windows shell scripts. This feature is no longer being enhanced. It was not included with the Rational Developer for System z offering and will be removed in a future version of the Rational Developer for zEnterprise offering. This feature is not required for local syntax check; the local syntax check capability is enabled via selection of the System z Integrated Development Environment feature.

Team and repository support

Provide tools for accessing and interacting with source control management systems as well as collaborative lifecycle management tools.

- 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 Rational ClearCase SCM and ClearCase MVFS plug-ins, which enable 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.
- CA Endeavor Software Change Manager: Provides tools to access and work with CA Endeavor Software Change Manager managed source code.

CICS Tools

Tools specifically for developers working with CICS Transaction Server (CICS TS), including the IBM CICS Explorer®

- Enterprise Service Tools for CICS including Service Component Architecture: Provide 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. Enterprise Service Tools quickly enable the move towards service-oriented architecture (SOA).
- 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: Provides design tools and wizards that 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 that 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 Version 8.5. 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 developer no longer has to return to the character-based interface (green screen) or work with CICS systems programmers via manual interaction to define many of the CICS application resources they need for testing application changes. 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 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. The tools support generation of web service descriptions and processing artifacts directly to a z/OS system, including the IMS SOAP Gateway and IMS info 2.0 applications. Enterprise Service Tools quickly enable the move towards an 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 that 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, facilitating remote debug sessions with applications executing on a z/OS system.

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

- Fault Analyzer: Enables you to work with fault entries created by IBM Fault Analyzer for z/OS during real-time analysis of abending programs.

Note: This feature requires that you have a license for IBM Fault Analyzer for z/OS .

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.
- Plug-in Development Environment (PDE): Provides tools for creating, developing, testing, debugging, and deploying Eclipse plug-ins, which can be used to extend the IBM Software Delivery Platform Eclipse environment.
 - C and C++ Development Tools for AIX : Provides tools to edit, compile, and debug C/C++ programs for AIX .
 - COBOL Development Tools for AIX : Provides tools to edit, compile, and debug COBOL programs for AIX .
 - C and C++ Development Tools for Linux : Provides tools to edit, compile, and debug C/C++ programs for Linux .

Multicultural support and translation information for IBM software can be found online at

<http://www-01.ibm.com/software/globalization/scorecard/index.html>

Section 508 of the US Rehabilitation Act

Rational Developer for System z is capable as of July 6, 2012 , 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

Program number

Program number	VRM	Program name
5724-T07	8.5.0	Rational Developer for System z

Education support

The following educational offerings are available:

Course code	Course title	Course type
SW913	Advanced web-to-Host Application Integration using IBM WebSphere HATS	Classroom
SW337	CICS AD support for SOAP and XML	Classroom
CI172	CICS Application Programming I	Classroom
CI181	CICS Application Programming II	Classroom
CI19	CICS Application Programming with Java	Classroom
SW336	CICS Web Enablement	Classroom
XC242	COBOL Programming Workshop	Classroom
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.

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Publications

No publications are shipped with this product.

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the U.S.) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Technical information

Specified operating environment

Hardware requirements

For the most current list of hardware prerequisites, visit

<http://www.ibm.com/software/rational/products/developer/systemz/>

Software requirements

For the most current list of software prerequisites, visit

<http://www.ibm.com/software/rational/products/developer/systemz/>

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

Customer responsibilities

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

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of

Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

Rational Developer for System z

Security, auditability, and control

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

Ordering information

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

Product information

Licensed function title	Product group	Product category
Rational Developer for System z	Rational Other	Rational Other
Rational Developer for zEnterprise	Rational Other	Rational Other

Program name	PID number	Charge unit description
Rational Developer for System z	5724-T07	Per Floating User Single Install
Rational Developer for System z	5724-T07	Per Authorized User
Rational Developer for zEnterprise	5724-T07	Per Floating User for System z
Rational Developer for zEnterprise	5724-T07	Per Floating User
Rational Developer for zEnterprise	5724-T07	Per Authorized User
Rational Developer for zEnterprise	5724-T07	Per Authorized User 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

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

Rational Developer for System z

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

Passport Advantage trade-up licenses

Rational Developer for System z

Precursor product	Trade-up product	Trade-up part number
Rational Developer for System z Competitive User	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0PZDLL
Rational Developer for System z	RDZ Per Floating User Single Inst Trade Up Lic + SW S&S 12 Mo	D0PZGLL
Rational Developer for zEnterprise Rational Application Developer	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3ILL
Rational Developer for Power	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3JLL
Rational Business Developer Competitive User	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3KLL
	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3GLL
Rational Developer for System z	RDZ Per Authorized User Trade Up Lic + SW S&S 12 Mo	D0Q3HLL
Rational Developer for zEnterprise Auth User	RDzEnterprise Float User from RDzEnterprise AU Trade Up Lic + SW S&S 12 Mo	D0GU5LL

Passport Advantage supply

Program name/description	Part number
Rational Developer for System z V8.5.0	
IBM RATIONAL DEVELOPER FOR SYSTEM Z V8.5 MEDIA PACK	BT0HFML
IBM RATIONAL BUSINESS DEVELOPER V8.5 MEDIA PACK	BT0HGML
Rational Developer for System zEnterprise V8.5.0	
IBM RATIONAL DEVELOPER FOR ZENTERPRISE V8.5 MEDIA PACK	BT0HEML

Passport Advantage customer: Media pack entitlement details

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

Rational Developer for zEnterprise V8.5.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Developer for zEnterprise per Authorized User	IBM RATIONAL DEVELOPER FOR ZENTERPRISE V8.5 MEDIA PACK	BT0HEML
IBM Rational Developer for zEnterprise per Authorized User for System z	IBM RATIONAL DEVELOPER FOR ZENTERPRISE V8.5 MEDIA PACK	BT0HEML
IBM Rational Developer for zEnterprise per Floating User SINGLE INSTALL	IBM RATIONAL DEVELOPER FOR ZENTERPRISE V8.5 MEDIA PACK	BT0HEML
IBM Rational Developer for zEnterprise per Floating User SINGLE INSTALL for System z	IBM RATIONAL DEVELOPER FOR ZENTERPRISE V8.5 MEDIA PACK	BT0HEML

Rational Developer for System z V8.5.0

IBM Rational Developer for System z per Authorized User for System z	IBM RATIONAL DEVELOPER FOR SYSTEM Z V8.5 MEDIA PACK	BT0HFML
IBM Rational Developer for System z per Authorized User for System z	IBM RATIONAL BUSINESS DEVELOPER V8.5 MEDIA PACK	BT0HGML
IBM Rational Developer for System z per Floating User Single Install for System z	IBM RATIONAL BUSINESS DEVELOPER V8.5 MEDIA PACK	BT0HGML
IBM Rational Developer for System z per Floating User Single Install for System z	IBM RATIONAL DEVELOPER FOR SYSTEM Z V8.5 MEDIA PACK	BT0HFML

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 Developer for System z

Part description	Part number
Rational Developer for zEnterprise	
RDzEnterprise Per Auth.User for System z Annual SW S&S Rnw1	E0ARLLL
RDzEnterprise Per Auth.User for System z Initl FT Lic+S&S 12 Mo	D0GUALL
RDzEnterprise Per Auth.User for System z Lic + SW S&S 12 Mo	D0GRPLL

RDzEnterprise Per Auth.User for System z SW S&S Reinstate 12 Mo	D0GRSLL
RDzEnterprise Per Auth.User for System z Subsq FT Lic+S&S 12 Mo	E0ASULL
Rat Dev zEn Flt User Sg1 Inst Sys z Annual SW S&S Rnw1	E0ASSLL
Rat Dev zEn Flt User Sg1 Inst Sys z Init1 FT Lic+S&S 12 Mo	D0GUCLL
Rat Dev zEn Flt User Sg1 Inst Sys z Lic + SW S&S 12 Mo	D0GU6LL
Rat Dev zEn Flt User Sg1 Inst Sys z SW S&S Reinstate 12 Mo	D0GU7LL
Rat Dev zEn Flt User Sg1 Inst Sys z Subsq FT Lic+S&S 12 Mo	E0ASWLL

Cross-platform product for use on System z IFL engines

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

Trade-up licenses for cross-platform products

Rational Developer for System z

Precursor product	Trade-up product	Part number
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Rational Developer for Power	RDz Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0Q3PLL
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Rational Developer for System z	RDz Per Auth.User for System z Trade Up Lic + SW S&S 12 Mo	D0Q3MLL
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