



IBM Rational Developer for Power System Software and Rational Developer for i for SOA Construction V8.5 deliver new enhancements for AIX and IBM i customers

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At a glance

The Rational® Developer for Power® family of offerings provides integrated environments for developing, modernizing, porting, and optimizing workloads for IBM® i, AIX®, and Linux™ on Power .

Version 8.5 enhancements include:

- For C/C++ for AIX and Linux on Power
 - Performance Advisor for C/C++ for AIX & Linux (workflow-driven performance analysis and advisory tools for optimizing application performance)
 - Enhancements to basic C/C++ IDE when working in remote projects
- For COBOL on AIX and for C/C++ on AIX and Linux
 - Porting and Migration Advisor (in-migration and porting guidance for C/C++ and COBOL for AIX and Linux)
 - Light weight, debuggable executables
 - Code coverage analysis capability for C, C++, and COBOL on AIX and Linux
- For IBM i
 - Live outline view for RPG applications
 - Enhancements to the i Project Perspective
- For all operating systems
 - Expanded set of data development tools in the Data Perspective
 - Support for build specifications for multiple contexts (such as for multiple promotion levels or even multiple target platforms)
 - Service reliability enhancements
 - 64-bit desktop operating system support (product can now exploit larger memory space)

Overview

The nine chargeable components of Rational Developer for Power Systems Software™, together with Rational Developer for i for SOA Construction, comprise the Rational Developer for Power family of products. Versions 8.5 of this family marks a significant milestone in the expansion of its value proposition from being an Integrated Development Environment for Power development to being an Integrated Development, Porting, and Optimization Environment for multi-platform development.

Among the key capabilities provided by these tools:

- **New:** Code coverage tools (for C/C++ and COBOL for AIX and Linux)
- **New:** Performance Advisor (for C/C++ for AIX and Linux)
- **New:** Porting and Migration Advisor (for C/C++ and COBOL for AIX and Linux)
- Remote System Explorer for connecting to IBM i, AIX, or Linux on Power servers, managing server-side files, and searching
- Language-aware editors and refactoring agents
- Debuggers (including server-side agents)
- Application analysis tools

Supported languages include:

- RPG, COBOL, DDS, CL, and C/C++ on IBM i
- C/C++ on Linux
- C/C++ and COBOL on AIX
- And also in the " Power Tools" editions, where there is support for:
 - Java™, Services, and web development for distributed platforms including AIX, Linux (on Power or x86), and Windows™
 - Mobile development for various mobile operating systems

Development is supported in both server-connected and disconnected modes. While connected, the tools are integrated with the optimizing IBM compilers for the various Power operating systems and languages, as well as with server-side explorer and debugger services.

These tools are designed to help organizations

- Raise developer productivity.
- Attract and retain talent.
- Reduce initial training costs (as many new hires will already be familiar with the Eclipse workbench environment).
- Deliver applications that make more efficient use of hardware infrastructure.
- Deliver higher-performing applications to raise customer satisfaction and compete more strongly.

The tools are specialized for use with IBM Power Systems™ yet can be used in combination with other Integrated Development Environments (such as Rational Application Developer for WebSphere® Software or Rational Developer for System z®) to support multi-platform development scenarios.

When used in combination with IBM Power Systems compilers and IBM Rational Team Concert™, IBM Rational Developer for Power Systems Software serves as a key element of a comprehensive application development, porting, optimization, and collaborative application lifecycle management solution that is optimized for Power systems but also serves in multi-platform development environments.

In addition to the value points of the development tools mentioned above, this broader integrated solution imparts additional benefits such as

- Improved team collaboration and productivity
- Lowered project risk
- Improved quality outcomes.

As previously noted the Rational Developer for Power family is a collection of 10 separately priced offerings. Refer to the [Description](#) section of this announcement for a full explanation of how the capabilities of this family are packaged to correspond to specific operating systems, languages, usage scenarios, and procurement scenarios.

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: YE001

Key prerequisites

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

Planned availability date

- Passport Advantage®
 - June 15, 2012: Electronic availability
 - July 6, 2012: Physical availability
- Advanced Administration System (AAS) -- June 29, 2012

Description

These are the baseline capabilities of the Rational Developer for Power Systems Software product family. These all carry forward from prior releases and in some cases are enhanced as part of version 8.5:

- Remote System Explorer for connecting to IBM i, AIX , or Linux on Power servers and doing server-side file management and searching
- Language-sensitive editors and refactoring agents
- Debuggers (including server-side agents) that support multi-threaded application debugging, and debugging of solutions that span multiple languages and platforms
- Application analysis tools

These are the major **new** capability sets being introduced at version 8.5:

- **New** Code test (execution) coverage analysis (for C/C++ and COBOL for AIX and Linux)
- **New** Performance Advisor (C/C++ performance analysis and advisory tools for AIX and Linux)
- **New** Porting and Migration Advisor (for C/C++ and COBOL for AIX and Linux)

Development is supported in both server-connected and disconnected modes. The tools are integrated with the server-side optimizing IBM compilers for the various Power operating systems and languages, as well as with server-side explorer and debugger services.

Supported languages include:

- RPG, COBOL, DDS, CL, and C/C++ on IBM i
- C/C++ on Linux
- C/C++ and COBOL on AIX
- Also in the Power Tools editions, there is support for:
 - Java , Services, and web development for distributed platforms including AIX , Linux (on Power or x86), and Windows
 - Mobile development for various mobile operating systems

These tools are optimized for use with Power Systems compilers and Rational Team Concert , and have specific points of integration with those offerings. When so combined, Rational Developer for Power Systems Software serves as a key element of a comprehensive application development, porting, optimization, and collaborative application lifecycle management solution that is optimized for Power systems but also serves in multiplatform development environments.

The Rational Developer for Power family of tools is a collection of ten separately chargeable offerings that fall into three offering categories:

- Four single-IDE offerings that correspond to a particular Power operating system and/or set of programming languages
- Three studio bundle offerings that combine a single IDE with corresponding compilers
- Three multiple-IDE bundle offerings that are designed to support multiplatform development and application modernization efforts. These combine the Power Systems tools with a significant subset of the capabilities of Rational Application Developer for WebSphere Software

The Studio bundle offerings are sold only through Passport Advantage . (But the unbundled compilers are available separately through both Passport Advantage and eConfig/AAS).

The other offerings are sold through both PPA and Advanced Administration System (AAS) but not all of the available license metrics for these offerings are supported by AAS. The fully detailed product structures are listed in other sections of this Announcement.

These are the offerings:

1. **Rational Developer for Power Systems Software RPG and COBOL Development Tools for i**

A **single-IDE** offering for developing RPG, COBOL, C, C++, CL, and DDS applications on IBM i.

2. **Rational Developer for Power Systems Software C/C++ Development Tools for AIX**

A **single-IDE** offering for developing C and C++ applications on AIX

3. **Rational Developer for Power Systems Software COBOL Development Tools for AIX**

A **single-IDE** offering for developing COBOL applications on AIX

4. **Rational Developer for Power Systems Software C/C++ Development Tools for Linux**

A **single-IDE** offering for developing C and C++ applications on Linux on Power (LoP), or for LoP. This offering includes support for doing disconnected development using the gnu compiler set, as well as support for connecting to and porting to LoP servers and thereby taking advantage of the optimizing XL C and C++ compilers for LoP, and utilizing the server-side debug service in the LoP environment.

5. **Rational Developer for Power Systems Software C/C++ Development Studio for AIX**

A **studio bundle** that combines the C/C++ Development Tools for AIX single IDE offering with the XL C/C++ for AIX compilers offering

6. **Rational Developer for Power Systems Software COBOL Development Studio for AIX**

A **studio bundle** that combines the COBOL Development Tools for AIX single IDE offering with the XL COBOL for AIX compilers offering

7. **Rational Developer for Power Systems Software C/C++ Development Studio for Linux**

A **studio bundle** that combines the C/C++ Development Tools for Linux single IDE offering with the XL C/C++ for Linux compilers offering

8. **Rational Developer for Power Systems Software Power Tools for i**

- A **multiple-IDE** bundle combines the RPG and COBOL Developer Tools for i single-IDE offering with a significant subset of the capabilities of Rational Application Developer for WebSphere Software.
- This bundle is intended to support scenarios where IBM i RPG and COBOL applications are being modernized using techniques such as refactoring and service-wrapping the RPG or COBOL applications so that the business logic can be accessed from modern user interfaces or other Services that you create using incorporated Java , Web, Portal, and mobile development capabilities of Rational Application Developer for WebSphere Software.

9. **Rational Developer for Power Systems Software Power Tools for AIX**

- A **multiple-IDE** bundle combines the C and C++ Developer Tools for AIX single-IDE offering with a significant subset of the Java . JEE, Web, Portal, mobile, and other capabilities of Rational Application Developer for WebSphere Software.
- This bundle is intended to support multi-platform and multi-language development scenarios that include some development on porting to AIX .

10. **Rational Developer for i for SOA Construction**

- Notice that this offering is not under the " IBM Rational Developer for Power Systems Software " umbrella name (or the corresponding Passport Advantage PID)
- It is a **multiple-IDE bundle** that combines the RPG and COBOL Developer Tools for i (Single-IDE offering) with IBM Rational Business Developer (a single-IDE offering for the EGL language) and IBM HATS Toolkit.
- This bundle is intended to support scenarios where IBM i RPG and COBOL applications are being modernized using these techniques:
 - Refactoring and service-wrapping the RPG or COBOL applications so that the business logic can be accessed from modern user interfaces or other Services that you create using EGL
 - Re-facing RPG and COBOL applications using HATS
 - Service-enabling RPG and COBOL applications using HATS
- Note that when using HATS, separate HATS runtime licenses are required.
- This bundle is available through both Passport Advantage and eConfig/AAS. It is not offered with floating or fixed-term license metrics.
- Rational Business Developer is an integrated development environment for EGL, a programming technology designed to simplify multi-platform application development. With EGL, developers can focus more on implementing the needs of the business and less on the intricacies of underlying frameworks and middleware. EGL provides a common programming language and model across all parts of an application, complements popular languages like Java , JavaScript™ , and COBOL, and deploys to popular platforms such as WebSphere Application Server, IBM Power Systems , and CICS® .
- HATS Toolkit is a set of IDE plug ins for developing HATS interfaces and services. It can be installed into the same package group as Rational Developer for Power and Rational Business Developer versions 8.5.

With HATS, you can rapidly transform the end user experience of 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:

- Apache Geronimo application server support
- Android support
- Chrome browser support

Each of the **single-IDE** offerings (C/C++ Development Tools for AIX , C/C++ Development Tools for Linux , COBOL Development Tools for AIX , and RPG and COBOL Development Tools for IBM i) provides a set of integrated tools for developing applications on or for IBM Power Systems . These include:

- Eclipse-based development environment with integrated search, edit, analysis, build, and debug capabilities.
- Access to remote files, processes, and shells on AIX and Linux , or to libraries, objects, members, IFS files, and jobs on IBM i.
- Rich source editing support with content assist, outline view, color tokenizing, quick navigation, syntax checking, refactoring agents, and much more.
- Visual editors for Data Description Specifications (DDS) display file and printer file source members on IBM i.
- Integrated build support with error feedback.
- Debugging with support for threads and real-time monitoring of variable changes.
- Debug attachment to core files for postmortem analysis (AIX only).
- Analysis tools that can visualize call, type, and include hierarchies for C and C++ on AIX and Linux and program calls and ILE bindings on IBM i.
- Integration with Rational Team Concert for source control and Collaborative Application Lifecycle Management (CLM). (Other ALM solutions that integrate with Eclipse can also be used.)

The development tools in Rational Developer for Power Systems Software are designed to complement the IBM optimizing compiler offerings for Power Systems . These compilers include:

- Rational Development Studio for i (formerly WebSphere Development Studio for i) which includes RPG, COBOL, C, C++, DDS, and other compilers for IBM i
- IBM XL C for AIX and XL C/C++ for AIX
- IBM XL C/C++ for Linux
- IBM COBOL for AIX

All of the development tools provide integration with Rational Team Concert , a collaborative lifecycle management solution that offers integrated team collaboration, project dashboards, work items, source control, build, and reporting. Rational Team Concert also has built-in planning and process support that can help teams using Agile or traditional development processes.

When combined, Rational Developer for Power Systems Software , IBM compilers, and Rational Team Concert provide a comprehensive solution for developing applications on IBM Power Systems . Used in combination with other Rational IDE offerings such as Rational Developer for System z and Rational Application Developer for WebSphere software, they provide a comprehensive solution for developing applications across nearly any combination of platforms and languages.

Rational Developer for Power Systems Software Performance Advisor (Performance Advisor) for C and C++ for AIX and Linux on Power

This is a new class of tools. It combines dynamic code analysis and profiling capabilities together with performance management features and expert guidance, all in a workflow-driven framework that helps you optimize the performance of C and C++ workloads as deployed to AIX and to Linux on Power .

This tool delivers performance analysis of C/C++ applications with capabilities such as hot spot analysis that are linked with performance-annotated source code and views for program understanding. It includes support for analyzing time spent in inlined functions and it can show the results directly in the source view. It also allows you to compare two profiles of the application in order to easily detect regressions in performance across two builds.

Performance Advisor function additionally provides detailed recommendations for how you might improve the performance of the application. Each recommendation is shown together with a confidence indicator that suggests the probability that following the recommendation will yield a measurable gain. In this way the framework helps you decide how to prioritize performance work you have available to devote to performance work.

The Performance Advisor function can create a scorecard for your application, using best practices from our Power hardware, operating system and compiler teams to provide automated recommendations through general analysis of your application without needing to even run it.

The Performance Advisor function is built with intimate knowledge of the Power hardware, operating systems, XL compilers, and best-tuning practices to provide expert guidance for tuning the application. By using sampling technology, it can provide sophisticated profiling capabilities without significantly slowing down the runtime of the application.

The Performance Advisor function manages the vast and different performance information generated by the underlying profiling tools and presents the developer with an integrated, easy-to-use interface that will allow them to quickly and effectively tune their applications.

Porting and Migration Advisor (for AIX and Linux)

This is a new class of tool set that combines static code analysis capabilities with expert system rules that work together in a framework to help you migrate or port your C/C++ and COBOL applications to AIX and Linux on Power .

Enhanced data development tools

Rational Developer for Power integrates with Data Studio from IBM Optim™ to provide enhanced data tooling capabilities. The functions now supported include the following:

- Database overview diagram
- Integrated Query Editor
- SQL Builder
- SQL Outline View
- Create, Alter, Drop single database objects
- DDL generation
- Ability to export rows from the SQL results view

Additional functions are available for DB2® for AIX and Linux including Visual Explain and query formatting.

Code coverage analysis capability (for C, C++ and COBOL for AIX and Linux)

You can now view which sections of your C, C++ and COBOL code are exercised when your applications are run during unit testing or debugging. In addition to seeing which specific paths are run, the new code coverage capability also provides useful coverage statistics that may be used as inputs to your quality/risk management processes.

Best-practice-based build configuration documentation

This provides guidance on decisions such as compiler, runtime, and debug options that are specific to various kinds of build targets such as unit test, integration test, performance test, or production.

Support for multiple build specifications

You can define multiple sets of specifications to build projects for multiple targets. A 'target' as used here could refer to a purpose or promotion level (such as "test" or "production") or it could refer to target platform (for example, AIX on Power versus Linux on Power).

Enhancements to basic C/C++ IDE when working in remote projects

Code folding and semantic highlighting are now available for C/C++ remote projects.

Light-weight debuggable executables

It is now possible to generate debug hooks and information into a side file so it does not enlarge the executables that you deploy into your production environments (or that you distribute to your end-user customers, if you are an ISV). The side file can remain in your development environment. Then you can obtain core files from the production (or customer) environment and attach to them with the debugger, using the same build version together with the side file. In this way, you can debug just as richly as if you were using a fully instrumented executable in the production (or customer) environment.

Live outline view for RPG applications

The outline review now refreshes as you change code, based on desktop-side parsing of RPG. This saves time and raises the developer's productivity.

Enhancements to the i Project Perspective

These enhancements improve the integration of the RPG and COBOL Development Tools for i with Rational Team Concert for IBM i development.

There is full two-way synchronization between i Projects in a local workspace and their associated libraries on remote IBM i systems. Users can also view the text description of their objects and source members in the Properties view when they are selected and have a Compile menu from which they can submit compile commands.

These improvements bring the i Project capabilities closer to parity with the capabilities that are available when you are using the Remote Systems Explorer perspective.

Service reliability enhancements

The server-side explorer and debug agents are improved so that when environmental conditions cause them to fail, they do so more gracefully. For example, they will now publish explanations of what conditions led to failures. They will provide diagnostics data for post-mortem analyses. They will let the desktop IDE know when they crash, so users are not left sitting and watching a progress icon that mysteriously never reaches completion.

Enhanced support for 64-bit desktop operating system

The product itself can now make use of expanded memory space using 64-bit JVM

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

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

Section 508 of the US Rehabilitation Act

Rational Developer for Power Systems Software V8.5 and Rational Developer for i for SOA Construction V8.5 are capable as of June 15, 2012, when used in accordance with associated IBM 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.

Program number

Program number	VRM	Program name
Passport Advantage		
5724-Y99	8.5	IBM Rational Developer for Power Systems Software
5724-T83	8.5	IBM Rational Developer for i for SOA Construction
Advanced Administration System (AAS)		
5733-RDG	8.5	IBM Rational Developer for Power Systems Software: RPG and COBOL Development Tools for i
5733-RDH	8.5	IBM Rational Developer for Power Systems Software: C/C++ Development Tools for AIX
5733-RDJ	8.5	IBM Rational Developer for Power Systems Software: COBOL Development Tools for AIX
5733-RDC	8.5	IBM Rational Developer for Power Systems Software: C/C++ Development Tools for Linux
5733-RDD	8.5	IBM Rational Developer for Power Systems Software: Power Tools for i
5733-RDE	8.5	IBM Rational Developer for Power Systems Software: Power Tools for AIX
5733-SOC	8.5	IBM Rational Developer for i for SOA Construction

Product identification number

Program PID number	SWMA PID number	SWMA PID description
5733-RDG	5660-RDP	Rational Developer for Power Systems Software: RPG and COBOL Development Tools for i N/C Registration and 1-year renewal
	5661-RDP	Rational Developer for Power Systems Software: RPG and COBOL Development Tools for i 1 year after license
	5662-RDP	Rational Developer for Power Systems Software: RPG and COBOL Development Tools for i 3-year registration
	5663-RDP	Rational Developer for Power Systems Software: RPG and COBOL Development Tools for i 3-year renewal
	5664-RDP	Rational Developer for Power Systems Software: RPG and COBOL Development Tools for i 3 years after license

5733-RDH	5660-RDA	Rational Developer for Power Systems Software: C/C++ Development Tools for AIX N/C Registration and 1-year renewal
	5661-RDA	Rational Developer for Power Systems Software: C/C++ Development Tools for AIX 1 year after license
	5662-RDA	Rational Developer for Power Systems Software: C/C++ Development Tools for AIX 3-year registration
	5663-RDA	Rational Developer for Power Systems Software: C/C++ Development Tools for AIX 3-year renewal
	5664-RDA	Rational Developer for Power Systems Software: C/C++ Development Tools for AIX 3 years after license
5733-RDJ	5660-RDB	Rational Developer for Power Systems Software: COBOL Development Tools for AIX N/C Registration and 1-year renewal
	5661-RDB	Rational Developer for Power Systems Software: COBOL Development Tools for AIX 1 year after license
	5662-RDB	Rational Developer for Power Systems Software: COBOL Development Tools for AIX 3-year registration
	5663-RDB	Rational Developer for Power Systems Software: COBOL Development Tools for AIX 3-year renewal
	5664-RDB	Rational Developer for Power Systems Software: COBOL Development Tools for AIX 3 years after license
5733-RDC	5660-RDC	Rational Developer for Power Systems Software: C/C++ Development Tools for Linux N/C Registration and 1-year renewal
	5661-RDC	Rational Developer for Power Systems Software: C/C++ Development Tools for Linux 1 year after license
	5662-RDC	Rational Developer for Power Systems Software: C/C++ Development Tools for Linux 3-year registration
	5663-RDC	Rational Developer for Power Systems Software: C/C++ Development Tools for Linux 3-year renewal
	5664-RDC	Rational Developer for Power Systems Software: C/C++ Development Tools for Linux 3 years after license
5733-RDD	5660-RDD	Rational Developer for Power Systems Software: Power Tools for i N/C Registration and 1-year renewal
	5661-RDD	Rational Developer for Power Systems Software: Power Tools for i 1 year after license
	5662-RDD	Rational Developer for Power Systems Software: Power Tools for i 3-year registration
	5663-RDD	Rational Developer for Power Systems Software: Power Tools for i 3-year renewal
	5664-RDD	Rational Developer for Power Systems Software: Power Tools for i 3 year after license
5733-RDE	5660-RDE	Rational Developer for Power Systems Software: Power Tools for AIX N/C Registration and 1-year renewal
	5661-RDE	Rational Developer for Power Systems Software: Power Tools for AIX 1 year after license
	5662-RDE	Rational Developer for Power Systems Software: Power Tools for AIX 3-year registration
	5663-RDE	Rational Developer for Power Systems Software: Power Tools for AIX 3-year renewal

	5664-RDE	Rational Developer for Power Systems Software: Power Tools for AIX 3 years after license
5733-SOC	5660-SOA	Rational Developer for i for SOA Construction N/C Registration and 1-year renewal
	5661-SOA	Rational Developer for i for SOA Construction 1 year after license
	5662-SOA	Rational Developer for i for SOA Construction 3-year registration
	5663-SOA	Rational Developer for i for SOA Construction 3-year renewal
	5664-SOA	Rational Developer for i for SOA Construction 3 years after license

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 program.

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, free of charge.

Technical information

Specified operating environment

Hardware requirements

Rational Developer for Power Systems Software V8.5

- Intel™ 1 GHz processor minimum (higher is recommended).
- 1 GB RAM; 2 GB RAM recommended.
- Minimum: 1 GB of disk space is required for product package installation. Additional disk space is required for the resources that you develop.
 - Disk space requirements can be reduced or increased, depending on the features that you install.
 - Additional disk space is required if you download the product package to install this product.
 - An additional 500 MB of disk space is required in the directory pointed to by your environment variable TEMP.
- 1024 x 768 resolution minimum (or higher, for best results).

Rational Developer for i for SOA Construction V8.5

For hardware requirements information about Rational Developer for Power Systems Software : RPG and COBOL Development Tools for i V8.5, refer to Software Announcement [212-167](#), dated May 29, 2012, (IBM Rational Developer for Power Systems Software V8.5).

For hardware requirements information about Rational Business Developer V8.5, refer to Software Announcement [210-404](#), dated October 26, 2010, (IBM Rational Business Developer V8.0.1).

For hardware requirements information about IBM Rational Host Access Transformation Services Toolkit V8.5 refer to Software Announcement [211-301](#), dated August 9, 2011, (IBM Rational Host Access Transformation Services Toolkit V8.0).

Software requirements

Rational Developer for Power Systems Software V8.5

Rational Developer for Power Systems Software : RPG and COBOL Development Tools for i, V8.5

- Supported operating systems: IBM i 5.4, 6.1, or 7.1. In the AAS ordering system, products 5733-RDG and 5733-RDD can be ordered in the 6.1 and 7.1 configurators.
- Program temporary fixes (PTFs) information: Some components need additional PTFs that are available at http://www.ibm.com/support/entry/portal/Overview/Software/Rational/Rational_Developer_for_Power_Systems_Software/
- More information about any required Power Systems server PTFs can be found by:
 - Opening the Remote System Explorer perspective if it is not already open. The name of the current perspective is shown in the top left corner of the title bar for the Window. To open the Remote Systems Explorer perspective, select Window > Open Perspective > Other and select Remote System Explorer from the list.
 - Creating a connection to your IBM i by expanding New Connection and double-clicking on IBM i.
 - Expanding your new connection and right-click on IBM i Objects.
 - Selecting Verify Connection from the menu. This displays a dialog that shows which required PTFs are already installed on the system and which ones are missing.
- IBM i is needed only if the programming objects are located on the IBM i or the applications contain backend code on the IBM i.
- Compiling RPG, COBOL, C, C++, CL, or DDS on IBM i using the Remote System Explorer (RSE), the compilers must be installed.
- Choosing operating systems that support all of the languages which are supported by the product:
 - Microsoft™ Windows XP Professional in 32-bit mode
 - Microsoft Windows Server 2008 Standard Edition in 32-bit and 64-bit mode
 - Microsoft Windows Server 2008 Enterprise Edition in 32-bit and 64-bit mode
 - Microsoft Windows Server 2008 R2 Standard and Enterprise Edition
 - Microsoft Windows 7 Professional, Enterprise, and Ultimate in 32-bit and 64-bit mode
 - Red Hat Enterprise Linux (RHEL) Desktop 5 x86-32 and x86-64
 - Red Hat Enterprise Linux (RHEL) Desktop 6 x86-32 and x86-64
 - SUSE Linux Enterprise Desktop (SLED) 11 x86-32
 - Ubuntu 10.04 LTS x86-32 and x86-64

Note: 64-bit JVM is not supported for Ubuntu 10.04 x86-64.

- One of the following web browsers:
 - Microsoft Internet Explorer 7.0, or later
 - Firefox 5.0, or later
- Some features of Rational Developer for Power Systems Software V8.5, such as the IBM i Web Services and Java Tools feature, require additional software. These features depend on some features that are provided in the following products:
 - Rational Application Developer for WebSphere Software V8.5
 - Rational Business Developer V8.5
 - Rational Software Architect for WebSphere Software V8.5
 - Rational Team Concert Client V4.0

Rational Developer for Power Systems Software : C/C++ and COBOL Development Tools for AIX , V8.5

Supported client operating systems that support all of the languages, which are supported by the product:

- Microsoft Windows XP Professional in 32-bit mode
- Microsoft Windows Server 2008 Standard Edition in 32-bit and 64-bit mode
- Microsoft Windows Server 2008 Enterprise Edition in 32-bit and 64-bit mode
- Microsoft Windows Server 2008 R2 Standard and Enterprise Edition
- Microsoft Windows 7 Professional, Enterprise, and Ultimate in 32-bit and 64-bit mode
- Red Hat Enterprise Linux (RHEL) Desktop 5 x86-32 and x86-64
- Red Hat Enterprise Linux (RHEL) Desktop 6 x86-32 and x86-64
- SUSE Linux Enterprise Desktop (SLED) 11 x86-32
- Ubuntu 10.04 LTS x86-32 and x86-64

Note: 64-bit JVM is not supported for Ubuntu 10.04 x86-64.

One of the following web browsers:

- Microsoft Internet Explorer 7.0, or later
- Firefox 5.0, or later

Supported server operating systems:

- AIX V5.3, subject to the following limitations:
 - Must be TL 7 or higher for base Rational Developer for Power Systems (AIX editions) support and only if there is an Extended Service Agreement.
 - Must be TL 12 or higher if using the Performance Advisor.
- AIX V6.1, subject to the following limitation:
 - Must be TL 5 or higher if using the Performance Advisor.
- AIX V7.1

Supported compilers:

- For Rational C/C++ Development Studio for AIX V8.5:
 - IBM XL C for AIX , 9.0, 10.1, 11.1, or 12.1.
 - IBM XL C/C++ for AIX , 9.0, 10.1, 11.1, or 12.1.
- For Rational COBOL Development Studio for AIX : IBM COBOL for AIX , 3.1, 4.1, or 4.1.1.
- Known limitations: the following compilers do not generate XML outputs that are required by Rational Developer for Power Systems Software Performance Advisor to support features such as inlining analysis.

- XL C for AIX 9.0
- XL C/C++ for AIX 9.0
- XL C for AIX 10.1
- XL C/C++ for AIX 10.1
- GNU on Linux

Rational Developer for Power Systems Software : C/C++ Development Tools for Linux , V8.5

Supported client operating systems that support all of the languages which are supported by the product:

- Microsoft Windows XP Professional in 32-bit mode
- Microsoft Windows Server 2008 Standard Edition in 32-bit and 64-bit mode
- Microsoft Windows Server 2008 Enterprise Edition in 32-bit and 64-bit mode
- Microsoft Windows Server 2008 R2 Standard and Enterprise Edition
- Microsoft Windows 7 Professional, Enterprise, and Ultimate in 32-bit and 64-bit mode
- Red Hat Enterprise Linux (RHEL) Desktop 5 x86-32 and x86-64
- Red Hat Enterprise Linux (RHEL) Desktop 6 x86-32 and x86-64
- SUSE Linux Enterprise Desktop (SLED) 11 x86-32
- Ubuntu 10.04 LTS x86-32 and x86-64

Note: 64-bit JVM is not supported for Ubuntu 10.04 x86-64.

One of the following web browsers:

- Microsoft Internet Explorer 7.0, or later
- Firefox 5.0, or later

Supported server operating systems:

- Red Hat Enterprise Linux (RHEL) Server 5 Update 5, or higher for IBM Power
- Red Hat Enterprise Linux (RHEL) Server 6 for IBM Power
- SUSE Linux Enterprise Server (SLES) 10 SP3, or higher for IBM Power
- SUSE Linux Enterprise Server (SLES) 11 SP1, or higher for IBM Power

Supported compilers:

- For Rational C/C++ Development Studio for Linux : IBM XL C/C++ for Linux , versions 10.1, 11.1, or 12.1
- GNU C/C++ compiler, 4.3 or higher

Rational Developer for i for SOA Construction V8.5

For software requirements information about Rational Developer for Power Systems Software : RPG and COBOL Development Tools for i V8.5, refer to Software Announcement [212-167](#), dated May 29, 2012, (Rational Developer for Power Systems Software V8.5).

For software requirements information about Rational Business Developer V8.5, refer to Software Announcement [210-404](#), dated October 26, 2010, (Rational Business Developer V8.0.1).

For software requirements information about Rational Host Access Transformation Services Toolkit V8.5 refer to Software Announcement [211-301](#), dated August 9, 2011, (Rational Host Access Transformation Services Toolkit V8.0).

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.

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Planning information

Physical packaging

IBM Rational Developer for Power Systems Software : RPG and COBOL Development Tools for i, V8.5

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- Rational Enterprise Deployment V1.5.2
- Rational License server V8.1.2 (included in Passport Advantage only)
- Rational Developer for Power Systems Software : RPG and COBOL Development Tools for i, V8.5 activation kit (included in product package in eConfig/AAS channel only)
- Rational Developer for Power Systems Software V8.5 License Information document (included in eConfig/AAS channel only)

IBM Rational Developer for Power Systems Software : C/C++ Development Tools for AIX , V8.5

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- Rational Enterprise Deployment V1.5.2
- Rational License server V8.1.2 (included in Passport Advantage only)
- Rational Developer for Power Systems Software : C/C++ Development Tools for AIX , V8.5 activation kit (included in product package in eConfig/AAS channel only)
- Rational Developer for Power Systems Software V8.5 License Information document (included in eConfig/AAS channel only)

IBM Rational Developer for Power Systems Software : C/C++ Development Tools for Linux , V8.5

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- Rational Enterprise Deployment V1.5.2
- Rational License server V8.1.2 (included in Passport Advantage only)
- Rational Developer for Power Systems Software : C/C++ Development Tools for Linux , V8.5 activation kit (included in product package in eConfig/AAS channel only)
- Rational Developer for Power Systems Software V8.5 License Information document (included in eConfig/AAS channel only)

IBM Rational Developer for Power Systems Software : COBOL Development Tools for AIX , V8.5

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start

- Rational Enterprise Deployment V1.5.2
- Rational License server V8.1.2 (included in Passport Advantage only)
- Rational Developer for Power Systems Software : COBOL Development Tools for AIX , V8.5 activation kit (included in product package in eConfig/AAS channel only)
- Rational Developer for Power Systems Software V8.5 License Information document (included in eConfig/AAS channel only)

IBM Rational Developer for Power Systems Software : Power Tools for i, V8.5

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- Rational Enterprise Deployment V1.5.2
- WebSphere Application Server Developer Tools for Eclipse with Web Development Extension for Power Systems Software V8.5
- Rational License server V8.1.2 (included in Passport Advantage only)
- Rational Developer for Power Systems Software : RPG and COBOL Development Tools for i, V8.5 activation kit (included in product package in eConfig/AAS channel only)
- Rational Developer for Power Systems Software V8.5 License Information document (included in eConfig/AAS channel only)

IBM Rational Developer for Power Systems Software : Power Tools for AIX , V8.5

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- Rational Enterprise Deployment V1.5.2
- WebSphere Application Server Developer Tools for Eclipse with Web Development Extension for Power Systems Software V8.5
- Rational License server V8.1.2 (included in Passport Advantage only)
- Rational Developer for Power Systems Software : C/C++ Development Tools for AIX , V8.5 activation kit (included in product package in eConfig/AAS channel only)
- Rational Developer for Power Systems Software V8.5 License Information document (included in eConfig/AAS channel only)

IBM Rational Developer for Power Systems Software : C/C++ Development Studio for AIX , V8.5 (Passport Advantage only)

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- IBM XL C/C++ for AIX V12.1

IBM Rational Developer for Power Systems Software : COBOL Development Studio for AIX , V8.5 (Passport Advantage only)

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- IBM COBOL for AIX V4.1.1

IBM Rational Developer for Power Systems Software : C/C++ Development Studio for Linux V8.5 (Passport Advantage only)

- IBM Rational Developer for Power Systems Software V8.5
- IBM Rational Developer for Power Systems Software V8.5 Quick Start
- IBM XL C/C++ for Linux V12.1

IBM Rational Developer for i for SOA Construction, V8.5

- IBM Rational Developer for Power Systems Software : RPG and COBOL Development Tools for i V8.5
- IBM Rational Business Developer V8.5
- IBM HATS Toolkit V8.5

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Ordering information

Charge metric

Product name	PID	Charge metric
IBM Rational Developer for Power Systems Software: RPG and COBOL Development for i	5733-RDG	Authorized User
IBM Rational Developer for Power Systems Software: C/C++ Development Tools for AIX	5733-RDH	Authorized User
IBM Rational Developer for Power Systems Software: COBOL Development Tools for AIX	5733-RDJ	Authorized User
IBM Rational Developer for Power Systems Software: C/C++ Development Tools for Linux	5733-RDC	Authorized User
IBM Rational Developer for Power Systems Software: Power Tools for i	5733-RDD	Authorized User
IBM Rational Developer for Power Systems Software: Power Tools for AIX	5733-RDE	Authorized User
IBM Rational Developer for Power Systems Software: RPG and COBOL Development Tools for i feature	5724-Y99	Authorized User Floating User Fixed Term

IBM Rational Developer for Power Systems Software: C/C++ Development Tools for AIX feature	5724-Y99	Authorized User Floating User Fixed Term
IBM Rational Developer for Power Systems Software: COBOL Development Tools for AIX feature	5724-Y99	Authorized User Floating User Fixed Term
IBM Rational Developer for Power Systems Software: C/C++ Development Studio for AIX feature	5724-Y99	Authorized User
IBM Rational Developer for Power Systems Software: COBOL Development Studio for AIX feature	5724-Y99	Authorized User
IBM Rational Developer for Power Systems Software: C/C++ Development Tools for Linux feature	5724-Y99	Authorized User Floating User Fixed Term
IBM Rational Developer for Power Systems Software: C/C++ Development Studio for Linux feature	5724-Y99	Authorized User
IBM Rational Developer for Power Systems Software: Power Tools for i feature	5724-Y99	Authorized User
IBM Rational Developer for Power Systems Software: Power Tools for AIX feature	5724-Y99	Authorized User
IBM Rational Developer for i for SOA Construction	5724-T83	Authorized User
IBM Rational Developer for i for SOA Construction	5733-SOC	Authorized User

Passport Advantage trade up

You must have previously acquired a license for the following precursor products to be eligible to acquire an equivalent licenses of the trade-up product.

Precursor product	Trade-up product	Trade-up part number
Rational Development Studio for i - ADTS AU (5761-WDS or 5770-WDS)	Rational Developer for i for SOA Construction AU (5724-T83)	D0PZ5LL
Rational Developer for i for SOA Construction AU (5724-T83)	RD Power Power Tools for i AU (5724-Y99)	D0PZ6LL
RD Power RPG and COBOL Dev Tools for i feature AU (5724-Y99)	RD Power Power Tools for i feature AU (5724-Y99)	D0PZ7LL
Rational Development Studio for i - ADTS AU (5761-WDS or 5770-WDS)	RD Power Power Tools for i feature AU (5724-Y99)	D0PZ8LL

Consult your IBM representative if you have any questions.

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.

Media packs description	Part number
IBM Rational Developer for Power Systems Software V8.5 Media Pack	BT0GJML
IBM Rational Developer for Power Systems Software V8.5 C/C++ Dev Studio for AIX Media Pack	BT0GKML
IBM Rational Developer for Power Systems Software V8.5 COBOL Dev Studio for AIX Media Pack	BT0GLML
IBM Rational Developer for Power Systems Software V8.5 C/C++ Dev Studio for Linux Media Pack	BT0GMML
IBM Rational Developer for Power Systems Software V8.5 Power Tools Media Pack	BT0GNML
IBM Rational Developer for i for SOA Construction V8.5 Media Pack	BT0GIML
IBM Rational HATS V8.5 for 5250 on Multiplatform Media Pack (1)	BT0GQML
IBM Rational HATS V8.5 for 5250 on IBM i Media Pack (1)	BT0GRML
IBM Rational HATS for Multiplatform V8.5 Media Pack (1)	BT0GPML

(1) This media pack will be available physically on July 13, 2012.

Charge features

5733-RDD

IBM Rational Developer for Power Systems Software: Power Tools for i	Charge feature
Power Tools for i upgrade from RPG and COBOL Dev Tools for i V7 (5733-RDP)	0003
Power Tools for i upgrade from RPG and COBOL Dev Tools for i V8 (5733-RDG)	0002
Power Tools for i upgrade from Rational Developer for i for SOA Construction V7 (5733-SOA)	0004
Power Tools for i upgrade from SOA Construction V8 (5733-SOC)	0005
Power Tools for i upgrade from Application ToolSet 6.1 (5761-WDS)	0006
Power Tools for i upgrade from Application Development ToolSet 7.1 (5770-WDS)	0007

5733-RDG

IBM Rational Developer for Power Systems Software: RPG and COBOL Dev Tools for i	
RPG and COBOL Dev Tools for i upgrade from Application Development ToolSet 6.1 (5761-WDS)	0005
RPG and COBOL Dev Tools for i upgrade from Application Development ToolSet 7.1 (5770-WDS)	0006

5733-SOC
IBM Rational Developer for i for SOA Construction

Rational Developer for i for SOA Construction upgrade from Application Development ToolSet 6.1 (5761-WDS)	0008
Rational Developer for i for SOA Construction upgrade from Application Development ToolSet 7.1 (5770-WDS)	0009

Supply features

Rational Developer for Power: RPG and COBOL Dev Tools for i 8.5 (5733-RDG)	5839
Rational Developer for Power: C/C++ Dev Tools for AIX 8.5 (5733-RDH)	5839
Rational Developer for Power: COBOL Dev Tools for AIX 8.5 (5733-RDJ)	5839
Rational Developer for Power: C/C++ Dev Tools for Linux 8.5 (5733-RDC)	5839
Rational Developer for Power: Power Tools for i (5733-RDD)	5839
Rational Developer for Power: Power Tools for AIX (5733-RDE)	5839
Rational Developer for i for SOA Construction 8.5 (5733-SOC)	5839

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L-JWOG-8S7RVP

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Corrections

(Corrected on October 18, 2012)

The Charge features topic in the Ordering information section is revised.

(Corrected on July 27, 2012)

The Charge features topic in the Ordering information section is revised.