



# IBM Rational Open Access: RPG Edition delivers RPG IV extensibility to access new devices and resources

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## At a glance

IBM® Rational® Open Access: RPG Edition allows organizations to reuse existing skills when creating modern RPG-based applications by providing a way for RPG developers to use the simple and well-understood RPG I/O model to access resources and devices that are not natively supported by RPG.

Software tool vendors, business partners, services organizations, and users can create and offer I/O handlers to access the wide range of available resources and devices, creating an innovative array of options for RPG development organizations.

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

## Overview

The RPG IV programming language has a strong record of being an efficient and productive language for writing business applications on IBM i. The language has been continuously enhanced with each IBM i release, including the most recent i 7.1 release. These enhancements have allowed RPG IV to interoperate with other languages in today's mixed environments, improved application maintenance and quality, and kept RPG IV current with system enhancements.

Other major enhancements, such as the introduction of the Integrated Language Environment® (ILE) and local files support in procedures, have allowed organizations to write modular, reusable code following programming best practices.

To further modernize the language and allow RPG-based applications to interface with the wide range of new devices and resources, enhancements have been made to RPG IV in IBM i 7.1 and 6.1 to open up the file I/O capabilities, allowing anyone to write innovative I/O handlers to access other devices and resources such as:

- Browsers
- Mobile devices
- Cloud computing resources
- Web services
- External databases
- XML files
- Spreadsheets

Software tool vendors, business partners, services organizations, and users write the handlers that extend RPG IV's I/O capabilities to new resources and devices. IBM Rational Open Access: RPG Edition provides the runtime enablement for the I/O handlers. RPG developers can access the resource or device in their applications using native RPG file specifications and I/O operations, allowing developers to reuse their existing skills and gaining the programming efficiency that organizations have come to expect from RPG.

IBM Rational Open Access: RPG Edition is required on partitions where programs using I/O handlers are being run.

Open Access is a full-featured version of the limited support provided by RPG SPECIAL files. It provides a way for RPG programmers to use the simple and well-understood RPG I/O model to access devices that are not directly supported by RPG.

When the HANDLER keyword is specified on a File specification, the RPG compiler will generate code to use the specified handling procedure for I/O operations to the file rather than generating code to call the system's data management functions.

The HANDLER keyword can be used for any RPG device, DISK, PRINTER, or WORKSTN. The provider of the handling procedure can choose the RPG device-type that best fits the function that the handler provides. For example, a user interface application could map to a WORKSTN file, an Excel document could map to a PRINTER file, and a Web service could map to a keyed DISK file.

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## Key prerequisites

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

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## Planned availability date

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April 23, 2010

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## Description

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### **Accessibility by people with disabilities**

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A U.S. 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](http://www.ibm.com/able/product_accessibility/index.html)

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

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IBM Rational Open Access: RPG Edition V1.1 is capable as of April 23, 2010, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM Web site at

[http://www-03.ibm.com/able/product\\_accessibility/index.html](http://www-03.ibm.com/able/product_accessibility/index.html)

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## Product positioning

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**IBM Rational Open Access: RPG Edition** opens up the RPG file I/O capabilities, allowing software tool vendors, business partners, services organizations, and users to write custom I/O handlers that can access new devices and resources that are not directly supported by RPG. This allows RPG developers to write applications that

can directly access these devices and resources while still using the regular RPG I/O model.

**IBM Rational Host Access Transformation Services (HATS)** performs runtime transformations of 5250 applications, allowing existing applications to be extended to the Web, Web services, portlets, rich clients, and mobile devices. Because HATS transforms the 5250 data stream, it does not require any changes to the application source code and is effective for organizations needing a quick, low-cost solution. It is also effective when the source code for the application is not available.

**IBM Rational Developer for i for SOA Construction** provides the development tooling for Enterprise Generation Language (EGL), a high-level business language designed for portability and to simplify the development of Web 2.0 and SOA solutions. EGL shields developers from the underlying middleware and programming languages. These abstractions allow developers to use a single language for all aspects of the applications: user interface, controller logic, and business logic. EGL has built-in language support for calling batch RPG and COBOL programs and service programs on IBM i so organizations can reuse existing business logic.

**IBM Rational Application Developer for WebSphere® Software** provides Java™ and Java Enterprise Edition (Java EE) development tools, helping teams design, develop, test, profile, and deploy portal, Web/Web 2.0, Web services, and SOA applications. Java has the ability to call batch RPG and COBOL programs and service programs on IBM i so organizations can reuse existing business logic. Rational Application Developer should be used by teams using Java as a platform for modernizing their IBM i applications with Web user interfaces and Web services interfaces.

**IBM Rational Developer for Power Systems Software™: RPG and COBOL Development Tools for i** provides a modern integrated development environment for creating and maintaining RPG, COBOL, CL, and DDS based applications on IBM i, independent of the style of application or technology used for user interface, services interfaces, or database technology. IBM Rational Developer for Power Systems Software can be installed into the same workbench as the above products, providing developers with a single workbench for creating and maintaining all aspects of their applications.

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## Reference information

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Refer to Software Announcement [210-105](#), dated April 13, 2010.

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## Program number

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Program number	VRM	Program name
5733-OAR	1.1	IBM Rational Open Access: RPG Edition

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## Product identification number

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Program PID number	SWMA PID number	SWMA PID description
5733-OAR	5660-OAR	IBM Rational Open Access: RPG Edition N/C Registration and 1 yr renewal
	5661-OAR	IBM Rational Open Access: RPG Edition 1 yr After License
	5662-OAR	IBM Rational Open Access: RPG Edition 3 yr registration

5663-OAR	IBM Rational Open Access: RPG Edition 3 yr renewal
5664-OAR	IBM Rational Open Access: RPG Edition 3 yr After License

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## Offering Information

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Product information is available via the Offering Information Web site

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

### Business Partner information

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=210-114>

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## Publications

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No publications are shipped with this program.

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## Technical information

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### Specified operating environment

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#### Hardware requirements

- For IBM i 6.1, one of these models:
  - 515, 520, 525, 550, 570, 595, 800, 810, 825, 870, 890, or MMA
  - BladeCenter® model 7998-61X
- For IBM i 7.1, one of these models:
  - POWER7™: 8233-E8B, 9117-MMB, 9179-MHB, 8406-70Y, or 8406-71Y
  - POWER6/6+: 9407-M15, 9408-M25, 9409-M50, 8203-E4A, 8204-E8A, 8234-EMA, 8261-E4S, 9406-MMA, 9117-MMA, 9119-FHA, 7998-60X, 7998-61X, or 7778-23X
  - POWER5/5+: 9405-520, 9407-515, 9406-520, 9406-525, 9406-550, 9406-570, or 9406-595

#### Software requirements

- IBM Rational Open Access: RPG Edition V1.1 supports IBM i V6.1 and V7.1 operating systems.
- IBM Rational Development Studio for i V6.1 (5761-WDS) or V7.1 (5770-WDS) applicable PTFs.
- RPG runtime V6.1 (5761-SS1) or V7.1 (5770-SS1) applicable PTFs.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

## Planning information

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### **Direct customer support**

For technical support or assistance, contact your IBM representative or visit

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

### **Packaging**

IBM Rational Open Access: RPG Edition V1.1 is shipped on DVD and is also available for download via the Entitled Software Support Web site

<http://www.ibm.com/eserver/ess>

### **Security, auditability, and control**

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IBM Rational Open Access: RPG Edition V1.1 uses the security and auditability features of the IBM i operating system. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## Software Services

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IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

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

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

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## Ordering information

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### **Charge metric**

Program name	PID number	Charge metric
IBM Rational Open Access: RPG Edition	5733-OAR	Processor based OTC

### **Charge features**

5733-OAR - IBM Rational Open Access: RPG Edition	Charge feature
P05 Open Access: RPG Edition OTC Reg	0001
P10 Open Access: RPG Edition OTC Reg	0002
P20 Open Access: RPG Edition OTC Reg	0003
P30 Open Access: RPG Edition OTC Reg	0004
P40 Open Access: RPG Edition OTC Reg	0005
P50 Open Access: RPG Edition OTC Reg	0006
P60 Open Access: RPG Edition OTC Reg	0007
P05 to P10 Open Access: RPG Edition Upg	0008
P05 to P20 Open Access: RPG Edition Upg	0009
P05 to P30 Open Access: RPG Edition Upg	0010
P05 to P40 Open Access: RPG Edition Upg	0011
P05 to P50 Open Access: RPG Edition Upg	0012

P05 to P60 Open Access: RPG Edition Upg	0013
P10 to P20 Open Access: RPG Edition Upg	0014
P10 to P30 Open Access: RPG Edition Upg	0015
P10 to P40 Open Access: RPG Edition Upg	0016
P10 to P50 Open Access: RPG Edition Upg	0017
P10 to P60 Open Access: RPG Edition Upg	0018
P20 to P30 Open Access: RPG Edition Upg	0019
P20 to P40 Open Access: RPG Edition Upg	0020
P20 to P50 Open Access: RPG Edition Upg	0021
P20 to P60 Open Access: RPG Edition Upg	0022
P30 to P40 Open Access: RPG Edition Upg	0023
P30 to P50 Open Access: RPG Edition Upg	0024
P30 to P60 Open Access: RPG Edition Upg	0025
P40 to P50 Open Access: RPG Edition Upg	0026
P40 to P60 Open Access: RPG Edition Upg	0027
P50 to P60 Open Access: RPG Edition Upg	0028

5660-OAR

- IBM Rational Open Access: RPG Edition N/C Registration and 1 yr renewal	Charge feature
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P05 Open Access: RPG Edition OTC 1-Year Reg	1565
P10 Open Access: RPG Edition OTC 1-Year Reg	1566
P20 Open Access: RPG Edition OTC 1-Year Reg	1567
P30 Open Access: RPG Edition OTC 1-Year Reg	1568
P40 Open Access: RPG Edition OTC 1-Year Reg	1569
P50 Open Access: RPG Edition OTC 1-Year Reg	1570
P60 Open Access: RPG Edition OTC 1-Year Reg	1571
P05 Open Access: RPG Edition OTC 1-Year Renewal	1572
P10 Open Access: RPG Edition OTC 1-Year Renewal	1573
P20 Open Access: RPG Edition OTC 1-Year Renewal	1574
P30 Open Access: RPG Edition OTC 1-Year Renewal	1575
P40 Open Access: RPG Edition OTC 1-Year Renewal	1576
P50 Open Access: RPG Edition OTC 1-Year Renewal	1577
P60 Open Access: RPG Edition OTC 1-Year Renewal	1578
P05 to P10 Open Access: RPG Edition Upg	1579
P05 to P20 Open Access: RPG Edition Upg	1580
P05 to P30 Open Access: RPG Edition Upg	1581
P05 to P40 Open Access: RPG Edition Upg	1582
P05 to P50 Open Access: RPG Edition Upg	1583
P05 to P60 Open Access: RPG Edition Upg	1584
P10 to P20 Open Access: RPG Edition Upg	1585
P10 to P30 Open Access: RPG Edition Upg	1586
P10 to P40 Open Access: RPG Edition Upg	1587
P10 to P50 Open Access: RPG Edition Upg	1588
P10 to P60 Open Access: RPG Edition Upg	1589
P20 to P30 Open Access: RPG Edition Upg	1590
P20 to P40 Open Access: RPG Edition Upg	1591
P20 to P50 Open Access: RPG Edition Upg	1592
P20 to P60 Open Access: RPG Edition Upg	1593
P30 to P40 Open Access: RPG Edition Upg	1594
P30 to P50 Open Access: RPG Edition Upg	1595
P30 to P60 Open Access: RPG Edition Upg	1596
P40 to P50 Open Access: RPG Edition Upg	1597
P40 to P60 Open Access: RPG Edition Upg	1598
P50 to P60 Open Access: RPG Edition Upg	1599

5661-OAR

- IBM Rational Open Access: RPG Edition 1 yr After License	Charge feature
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P05 Open Access: RPG Edition OTC 1-Year After License	0545
P10 Open Access: RPG Edition OTC 1-Year After License	0546
P20 Open Access: RPG Edition OTC 1-Year After License	0547
P30 Open Access: RPG Edition OTC 1-Year After License	0548
P40 Open Access: RPG Edition OTC 1-Year After License	0549
P50 Open Access: RPG Edition OTC 1-Year After License	0550
P60 Open Access: RPG Edition OTC 1-Year After License	0551

5662-OAR		
- IBM Rational Open Access: RPG Edition		Charge
3 yr registration		feature
P05 Open Access: RPG Edition OTC 3-Year Reg		0806
P10 Open Access: RPG Edition OTC 3-Year Reg		0807
P20 Open Access: RPG Edition OTC 3-Year Reg		0808
P30 Open Access: RPG Edition OTC 3-Year Reg		0809
P40 Open Access: RPG Edition OTC 3-Year Reg		0810
P50 Open Access: RPG Edition OTC 3-Year Reg		0811
P60 Open Access: RPG Edition OTC 3-Year Reg		0812
P05 to P10 Open Access: RPG Edition Upg		0813
P05 to P20 Open Access: RPG Edition Upg		0814
P05 to P30 Open Access: RPG Edition Upg		0815
P05 to P40 Open Access: RPG Edition Upg		0816
P05 to P50 Open Access: RPG Edition Upg		0817
P05 to P60 Open Access: RPG Edition Upg		0818
P10 to P20 Open Access: RPG Edition Upg		0819
P10 to P30 Open Access: RPG Edition Upg		0820
P10 to P40 Open Access: RPG Edition Upg		0821
P10 to P50 Open Access: RPG Edition Upg		0822
P10 to P60 Open Access: RPG Edition Upg		0823
P20 to P30 Open Access: RPG Edition Upg		0824
P20 to P40 Open Access: RPG Edition Upg		0825
P20 to P50 Open Access: RPG Edition Upg		0826
P20 to P60 Open Access: RPG Edition Upg		0827
P30 to P40 Open Access: RPG Edition Upg		0828
P30 to P50 Open Access: RPG Edition Upg		0829
P30 to P60 Open Access: RPG Edition Upg		0830
P40 to P50 Open Access: RPG Edition Upg		0831
P40 to P60 Open Access: RPG Edition Upg		0832
P50 to P60 Open Access: RPG Edition Upg		0833

5664-OAR		
- IBM Rational Open Access: RPG Edition		Charge
3 yr After License		feature
P05 Open Access: RPG Edition OTC 3-Year After License		0001
P10 Open Access: RPG Edition OTC 3-Year After License		0002
P20 Open Access: RPG Edition OTC 3-Year After License		0003
P30 Open Access: RPG Edition OTC 3-Year After License		0004
P40 Open Access: RPG Edition OTC 3-Year After License		0005
P50 Open Access: RPG Edition OTC 3-Year After License		0006
P60 Open Access: RPG Edition OTC 3-Year After License		0007

*Other chargeable features*

	Feature number
<b>Special Delivery features</b>	
Expedite - Customer Expense 5733-OAR	3446

	Feature number
<b>No-charge features</b>	

	Feature number
<b>Special Delivery features</b>	
Electronic SW Delivery 5733-OAR	3450
Ship Media Only 5733-OAR	3470
Ship Documentation Only 5733-OAR	3471

## Language features

Multilingual 5733-OAR	2935
Multilingual 5660-OAR	2935
Multilingual 5661-OAR	2935
Multilingual 5662-OAR	2935
Multilingual 5663-OAR	2935
Multilingual 5664-OAR	2935

## Supply features

IBM Rational Open Access: RPG Edition V1.1 5733-OAR	5819
IBM Rational Open Access: RPG Edition SW Maintenance 1 Year Registration/Renewal 5660-OAR	5809
IBM Rational Open Access: RPG Edition Maintenance 1 Year After License 5661-OAR	5809
IBM Rational Open Access: RPG Edition Maintenance 3 Year Registration 5662-OAR	5809
IBM Rational Open Access: RPG Edition Maintenance 3 Year Renewal 5663-OAR	5809
IBM Rational Open Access: RPG Edition Maintenance 3 Year After Licence 5664-OAR	5809

## Other features

ePOE registration P05 5733-OAR	6005
ePOE registration P10 5733-OAR	6010
ePOE registration P20 5733-OAR	6020
ePOE registration P30 5733-OAR	6030
ePOE registration P40 5733-OAR	6040
ePOE registration P50 5733-OAR	6050
ePOE registration P60 5733-OAR	6060

## 5733-NKY features to remove key and ePOEs

IBM Rational Open Access: RPG Edition Software (5733-OAR)	2542
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## HIPO 5372-IS5 Pre-load feature

IBM Rational Open Access: RPG Edition Software (5733-OAR)	1038
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***License Information form number***

GC52-1364-00

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Yes

***Limited warranty***

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For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

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***Volume orders (IVO)***

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***Passport Advantage applies***

No

***Usage restriction***

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***IBM Operational Support Services -- SoftwareXcel***

No

***System i Software Maintenance applies***

No

***Variable charges apply***

No

### **Educational allowance available**

Yes. A 15% education allowance applies to qualified education institution customers.

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## **IBM Electronic Services**

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The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

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## **Prices**

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

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Choose the option entitled Purchase/upgrade tools.

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Reference: AE001

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