



IBM Rational Developer for System i delivers an integrated development environment for creating traditional i5/OS, flexible and integrated business applications

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Overview

IBM Rational® Developer for System i™ V7.1 is a new Eclipse-based workstation offering for i5/OS™ application development.

Key V7.1 enhancements

- Application Diagram
 - CL language support
 - Program calls for Integrated Language Environment® (ILE) COBOL, ILE RPG and CL source
 - Scalability to enable support of large number of source files
- i5/OS Web Services and Java™ Tools
 - Installable when the appropriate prerequisite, such as IBM Rational Application Developer for WebSphere® Software V7.0.0.5 is installed.
 - Generated code is improved for easier understanding, modification and extending.
 - Optimized for greater performance.
- i5/OS V6R1 host support
- Specific functions that were previously contained in WebSphere Development Studio Client Advanced Edition for System i V7.0
 - i5/OS program call J2C connector
 - Single sign-on using Enterprise Identity Mapping (EIM) for Web applications
 - Application diagram RPG support
 - Screen designer technology preview phase 1
 - ClearCase® and IBM Rational Developer for System i integration to System i
- Screen designer technology preview phase 2
- Enhanced debug support
 - Support for RPG threads
 - Support for RPG varying length variables
 - COBOL OCCURS DEPENDING ON (ODO) support
 - C decimal floating point support
- Footprint reduction in disk and memory

Key prerequisites

For details, refer to the Hardware requirements and Software requirements sections.

Planned availability date

March 21, 2008

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL Reference: YE001

Description

Application Diagram V7.1 enhancements

The functions in the Application Diagram were previously included in WebSphere Development Studio Client Advanced Edition for System i. The Application Diagram capabilities are now included in IBM Rational Developer for System i. The V7.1 enhancements include:

- **Functional Zoom:** The Application Diagram now graphically shows subroutines and subprocedures within their source member. The diagram initially opens up showing only source members, programs and service programs, along with any direct (copybooks and bindings) and indirect (procedure and program calls) relationships between them. You can then expand source members to see the lower level details. Expanding a source member shows the call graph for that source member within the graphical representation of the source member in the diagram.
- **Program calls:** The previous release of the Application Diagram only shows bound procedure and subroutine calls. In version 7.1 the Application Diagram is updated to also show program calls for ILE RPG, ILE COBOL, and CL source.
- **CL Support:** CL source members are now scanned and their information is added to the generated diagram.

Other functions from WebSphere Development Studio Client Advanced Edition for System i that are included in IBM Rational Developer for System i are:

- i5/OS program call J2C connector
- Single sign-on using EIM for Web applications
- Application Diagram
- Screen designer technology preview phase 1
- ClearCase and IBM Rational Developer for System i integration for System i

i5/OS Web Services and Java Tools V7.1 enhancements in the ILE Web Services and

Program Call Bean: The Program Call wizard now enables the generation of Program Call Markup Language (PCML) and direct program call Java beans. Direct program call Java beans use the ProgramCall class to invoke the System i program. PCML program call Java beans use the ProgramCallDocument class to invoke the System i program. Generated program call beans are more extensible. Communications between generated Program Call bean and i5/OS now supports SSL.

i5/OS V6R1 support: The level of Program Verifiers, Syntax Checkers, Content assist, Editor wizards and Outline view are updated to the i5/OS V6R1 host level.

Screen designer technology preview phase 2:

In V7.1 screen designer technology preview phase 2 contains improved usability enhancements. It now reflects more closely to its intended appearance and function. The enhancements include:

- Keyword-specific property pages
- The ability to specify keyword properties when adding a keyword

- A toolbar button on the design page for configuring preferences
- Partial preview page function, including indicator sets and field values
- Convenient buttons to control screen size from both the design page and the preview page
- Screen information that is now stored as XML comments within the display file
- Performance enhancements
- Defect fixes

Debug support

- Select and debug each RPG thread in the application, view and change variables, and pause a thread
- View and modify RPG varying length variables
- Show the data item information in COBOL ODO (OCCURS DEPENDING ON) properly and more easily
- View and modify decimal floating points in ILE C

Footprint reduction: Reduces the hard disk and main memory requirements.

Accessibility by people with disabilities

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

Section 508 of the U.S. Rehabilitation Act

IBM Rational Developer for System i V7.1 is capable as of March 21, 2008, 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. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM Web site at

http://www-3.ibm.com/able/product_accessibility/index.html

Product positioning

The new IBM Rational Developer for System i offering is strategic IBM application tooling. It is an IDE for creating traditional i5/OS applications. For your convenience, IBM Rational Developer for System i is available for ordering in both the configurator and Passport Advantage® channels.

Statement of direction

WebSphere Development Studio Client for System i, as well as the non-ILE System i compilers and Application Development ToolSet components in WebSphere Development Studio for System i are stabilized. That means IBM will no longer add any new enhancements to these components. Our future investment will focus on our strategic ILE compilers and IBM Rational application development tools. IBM recommends that customers use the ILE set of compilers. For workstation tools, IBM recommends that customers use the IBM Rational Developer for System i product.

All statements regarding IBM plans, directions, and intent are subject to change or withdrawal without notice.

Reference information

Refer to [208-018](#), dated January 29, 2008 (IBM Enterprise Modernization Preview).

Business Partner information

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).

BP Attachment for Announcement Letter 208-016

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=208-016>

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Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

No publications are shipped with this program.

With the IBM Systems Information Center, users can use a single information center to access product documentation for IBM Systems hardware, operating systems, and server software. Through a consistent framework, users can efficiently find information and personalize their access to that information. The IBM Systems Information Center is at

<http://publib.boulder.ibm.com/infocenter/sys>

Technical information

Hardware requirements

- Intel® Pentium® III 800 MHz processor minimum (higher is recommended).
- 512 MB RAM; 1 GB RAM recommended.
- Minimum: 800 MB 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.
 - For Windows®: Additional disk space is required if you use FAT32 instead of NTFS.
 - For Windows: An additional 500 MB of disk space is required in the directory pointed to by your environment variable TEMP.

- 1024 x 768 resolution minimum using 256 colors (or higher for best results).
- Microsoft® mouse or compatible pointing device.
- CD-ROM drive.

Software requirements

- Support — i5/OS™ V5R3, V5R4, or V6R1. The product can only be ordered in i5/OS V6R1.
- Program temporary fixes (PTFs) information — Some components need additional PTFs that can be viewed online at <http://www.ibm.com/software/awdtools/series>
- More information about any required System i™ server PTFs — Can be found by:
 - Opening the Remote System Explorer perspective if it is not already open by selecting Window > Open Perspective > Other and select Remote System Explorer. The name of the current perspective is shown in the top left corner of the title bar for the Window.
 - Creating a connection to your i5/OS server by expanding New Connection > i5/OS.
 - Expanding your new connection and right click on 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.
 - Compiling RPG, COBOL, C, C++, CL, or DDS on the System i using the Remote System Explorer (RSE), the compilers must be installed on the i5/OS.
- Operating systems, supported in 32-bit mode, that support all of the languages are supported by IBM Rational® Developer for System i:
 - Microsoft Windows XP Professional with Service Pack 2 or later
 - Microsoft Windows 2000 Professional with Service Pack 4
 - Microsoft Windows 2000 Server with Service Pack 4
 - Microsoft Windows 2000 Advanced Server with Service Pack 4
 - Microsoft Windows Server 2003 Standard Edition with Service Pack 1
 - Microsoft Windows Server 2003 Enterprise Edition with Service Pack 1
 - Microsoft Windows Vista® Business, Windows Vista Enterprise, and Windows Vista Ultimate
- IBM Rational Developer for System i is developed for use with Eclipse IDE V3.2.2. You can only extend an existing Eclipse IDE of V3.2.2 with latest updates from the open source community.
- Extension of an existing Eclipse IDE. A JRE is required from the following Java™ development kit:
 - IBM 32-bit SDK for Windows Java 2 Technology Edition, Version 5.0 service release 4; Sun Java 2 Standard Edition 5.0 Update 12 for Microsoft Windows
 - Sun Java 2 Standard Edition (Java SE) Runtime Environment (JRE) 6.0 is not supported.
 - Installation of updates: You might need to update your Eclipse version in order to install updates. Refer to the update's release documentation for information on changes to the prerequisite Eclipse version.
- Eligibility requirements: To enable users who do not have administrator privileges to work with IBM Rational Developer for System i on a Windows Vista system, do not install Eclipse inside the Program Files directory (C:\Program Files).
- One of the following Web browsers to view the readme files and the installation guide, and to support the Standard Widget Toolkit (SWT) browser widget:
 - Microsoft Internet Explorer 6.0 with Service Pack 1, or later
 - Mozilla 1.6, or later
 - Firefox 1.0.x, 1.5, 2.0, or later

- The launchpad that does not support Mozilla 1.6. If your browser is Mozilla, you need V1.7, or later, to run the launchpad.
- Viewing multimedia user assistance, such as tours, tutorials, and demonstration viewlets. You must properly install Adobe Flash Player, Version 6.0 release 65, or later

Notes

- On the Windows Vista operation system, the Samples Gallery and Tutorials Gallery does not support the new high resolution display setting "Larger scale (120DPI) — make text more readable". The gallery content does not display if this option is set. If you changed to the new high resolution display option, you must change in to a lower resolution setting, for example, the default 90 DPI® setting.
- On the Japanese version of the Windows Vista operating system, the Samples Gallery and Tutorials Gallery requires Mozilla Firefox as the Web browser preference; the gallery content does not display on other Web browsers. To run the galleries, install Mozilla Firefox, and then set the Web Browser preference to Mozilla Firefox (In the main product menu, click Window > Preferences > General > Web Browser.

The program's specifications and specified operating environment information may be found in documentation accompanying the Program, if available, such as a read-me 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

Packaging: IBM Rational Developer for System i V7.1 media package contains the following:

- IBM Rational Developer for System i Quick Start Guide
- IBM Rational Developer for System i Quick Start CD
- IBM Rational Developer for System i V7.1 product code

This program, when downloaded from a Web site, contains the applicable IBM license agreement, and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

IBM Rational Developer for System i V7.1 uses the security and auditability features of the respective operating systems. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

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/>

Ordering information

Product group: IBM Rational

Product Identifier	Description	PID
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IBM Rational Developer for System i 5724-T82
5733-RDI

Product category: Design and Construction

Charge metric

Program name	Part number or PID number	Charge metric
IBM Rational Developer for System i	5724-T82	Authorized user
	5733-RDI	Authorized user

Authorized user

An authorized user is one and only one individual (named or unnamed) within or outside your enterprise. A PoE must be obtained for each individual user accessing the program in any manner. A program licensed under an authorized user PoE may be installed on a single computer or server, and accessed by multiple users, provided that a PoE has been obtained for each individual user accessing the program either directly or indirectly (via a multiplexing program, device, or application server) through any means on behalf of the user.

Passport Advantage

Program name/Description	Part number
IBM Rational Developer for System i V7.1 Windows ML Media Pack	BT046ML
Rational Developer for System i authorized user LIC+SW MAINT 12 MO	D03HCLL
Rational Developer for System i authorized user ANNUAL SW MAINT RNWL	E04I DLL
Rational Developer for System i authorized user SW MAINT REINSTATE 12 MO	D03HELL

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.

Entitled maintenance offerings description	Part number
IBM Rdi V7.1 Win ML	BT046ML

Charge features

5733-RDI	Charge feature
Per User OTC with 1 Year SWMA	0002
Per User Charged with HW with 1 Year SWMA	0003
5660-RDI	Charge feature
Per User SW Maintenance NoCharge Registration	1131
5661-RDI	Charge feature

Per User SW Maintenance 1 Year After License 0340

5662-RDI Charge
feature

Per User SW Maintenance 3 Year Registration 0445

Other chargeable features

Special delivery features

Feature
number

Expedite -- Customer Expense 5733-RDI 3446

No-charge features: Special delivery features

Feature
number

Electronic SW Delivery 5733-RDI 3450

Ship Media Only 5733-RDI 3470

Ship Documentation Only 5733-RDI 3471

Language features

Multilingual 2935

Supply features

Rational Developer for System i V7.1 5733-RDI 5819

IBM Rational Developer for System i
SW Maintenance 1 Year Registration/Renewal
5660-RDI 5809

IBM Rational Developer for System i SW
Maintenance 1 Year After License 5661-RDI 5809

IBM Rational Developer for System i SW
Maintenance 3 Year Registration 5662-RDI 5809

Other features

ePOE registration 5733-RDI 2001

5733-NKY i5/OS remove key and ePOEs

IBM Rational Developer for System i 5733-RDI 2522

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

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

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Other terms

Volume orders (IVO): Yes. Contact your IBM representative.

Passport Advantage applies: Yes, and through the Passport Advantage Web site at

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

Usage restriction: Yes

Software Maintenance applies: Yes. Software Maintenance, previously referred to as Software Subscription and Technical Support, is now included in the Passport Advantage Agreement. Installation and technical support for the products announced in this announcement is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity by providing voice or electronic access into the IBM support organizations.

IBM includes one year of Software Maintenance with the initial license acquisition of each program acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option.

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Variable charges apply: No

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

Prices

Passport Advantage

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The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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