IBM Rational Developer for System z V7.1 helps make traditional development fast and efficient

At a glance

With IBM Rational Developer for System z V7.1, developers can accelerate the development of:

- Service-oriented architecture (SOA), including services deployable to CICS, IMS, WebSphere Application Server, and DB2 Stored Procedure environments
- Dynamic Web applications and front ends including HTML, Java Server Faces (JSF), Java Server Pages (JSP), Java and J2EE including Java Cryptography Architecture (JCA)
- COBOL and PL/I applications that can be deployed to z/OS®, Microsoft™ Windows™, CICS, IMS, batch, UNIX System Services, and DB2 Stored Procedure-based environments
- C, C++, and High-Level Assembler applications that can be deployed to z/OS, CICS, IMS, batch, UNIX System Services, and DB2 Stored Procedure-based environments
- Java applications that are created for and run under JZOS on z/OS
- Web Services development using new or existing CICS applications, including the function to:
  - Develop a Web service with a CICS application as the application component
  - Develop a comprehensive Web service that collects and processes data from terminal and non-terminal applications and Web Services
  - Develop a CICS application that accesses a z/OS DB2 database, and invoke it from a comprehensive Web service

Overview

IBM Rational® Developer for System z™ V7.1 includes capabilities that can help make traditional mainframe development, Web development, and integrated service-oriented architecture (SOA)-based composite development fast and efficient. COBOL, PL/I, C, C++, High-Level Assembler, and Java™ developer communities can also be more productive when they take advantage of these functions. IBM Rational Developer for System z integrates with and extends the IBM Rational Software Delivery Platform (SDP).

IBM Rational Developer for System z V7.1 is the follow-on replacement product for WebSphere® Studio Enterprise Developer V5, WebSphere Developer for zSeries® V6, and WebSphere Developer for System z V7.0.

IBM Rational Developer for System z V7.1 supports 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, UNIX® System Services, and WebSphere transactional environments. It also includes high-productivity tools for business-oriented developers, new to Java 2 Enterprise Edition (J2EE) and Java, which integrate IBM eServer® System z processing via Web services using powerful Web User and Session management.

IBM Rational Developer for System z is optimized for WebSphere software and System z deployment environments, and supports multi-vendor runtime environments. It is powered by the Eclipse open-source platform so developers can adapt and extend their development environment to match their needs and help increase their productivity.

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

Key prerequisites

Refer to the Software requirements and Hardware requirements sections.

Planned availability dates

- September 28, 2007 (electronic software delivery)
- October 12, 2007 (media and documentation)

Description

Section 508 of the U.S. Rehabilitation Act

IBM Rational Developer for System z is capable as of October 12, 2007, 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), containing details on the products accessibility compliance, can be requested at


IPLA and Subscription and Support considerations

IPLA licenses can be transferred from one machine to another within, but not limited to an enterprise. You may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement (PoE). It is your responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and Support will be available in the country in which the agreement is made.

Trademarks

System z and IMS are trademarks of International Business Machines Corporation in the United States or other countries or both.

Rational, WebSphere, zSeries, CICS, DB2, eServer, and z/OS are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Microsoft and Windows are trademarks of Microsoft Corporation.

Java is a trademark of Sun Microsystems, Inc.

UNIX is a registered trademark of the Open Company in the United States and other countries.

Other company, product, and service names may be trademarks or service marks of others.

Discretionary information

IBM United States Announcement 207-210 IBM is a registered trademark of International Business Machines Corporation
Summary of IBM Rational® Developer for System z™

IBM Rational Developer for System z consists of a common workbench and an integrated set of tools that support end-to-end, model-based application development, run-time testing, and rapid deployment of on demand applications. It offers integrated development environments (IDE) with advanced, easy-to-use tools and features to help WebSphere®, CICS®, and IMS™ developers rapidly design, code, and deploy complex applications.

Web, J2EE, and Java™ development

Web development

• Helps develop creative and data-rich Web-based applications
• Provides visual layout tools to help you write Java Server Faces (JSF), JavaServer Pages (JSP), and HTML
• Includes a wizard to develop servlet code
• Lets you create Web applications from database queries and beans
• Includes graphic-design software for producing static and animated output
• Supports J2EE coding and deployment

Java development

• Helps create Java code
• Helps enable incremental compilation and provides a common local and remote debugger benefit
• Includes Java source file tools to search, compare, and merge code and refactoring tools to help reorganize Java applications

J2EE platform support

• Features full Enterprise JavaBeans (EJB) support, Web Archive (WAR) and Enterprise Application Archive (EAR) deployment support
• Includes an updated EJB test client and an enhanced unit-test environment to create multiple projects with different unit-test configurations

Analysis and performance profiling

• Collects and presents Java run-time data in graphical and non-graphical views
• Helps detect application performance issues early in the development cycle and improves overall system efficiency

z/OS® and UNIX® System Services development

• Provides an interactive, workstation-based environment with quick access to IBM z/OS datasets and UNIX System Services Hierarchical File System (HFS) / System z File System (zFS) files
• Creates Assembler, COBOL, PL/I, C, C++, and Java code
• Creates, maintains, and debugs CICS, and IMS system-based code, IMS and Structured Query Language (SQL) statements

Windows™ development

• IBM COBOL for Windows compiler supports development of IBM COBOL applications including compiling, testing, debugging, and deploying to Windows platforms.
• IBM PL/I for Windows compiler supports development of IBM PL/I applications including compiling, testing, debugging, and deploying to Windows platforms.
• TXSeries™ provides CICS support for development of IBM PL/I and COBOL for Windows applications including translating, compiling, testing, and debugging. For deployment, TXSeries for Multiplatforms must be purchased.
Composite development

Web services and XML development

- Offers the ability to create, view, edit and validate WSDL, document-type definitions (DTD) and XML schemas, transforms XML documents into text, HTML, or other XML document types
- Integrates relational databases and XML
- Generates COBOL adapters and CICS TS V3 WSBind and COBOL artifacts for converting between Web Service Definition Language (WSDL), XML and COBOL data in a Web services environment

Testing and deployment

Allows cross-platform interactive testing, debugging, and deployment of JSP, servlets, EJB, and HTML files on local and remote Web application servers as well as z/OS CICS, IMS, batch, DB2®, and UNIX System Services debugging of COBOL, PL/I, C, C++ and assembler applications.

Web services deployment

- Helps build and deploy Web services-enabled applications across a broad range of platforms
- Offers tools to help ensure conformance to standards such as UDDI for Java, Simple Object Access Protocol (SOAP), and Web Services Description Language (WSDL)

Relational database

- Helps create and manipulate project data design as relational database (RDB) schemas
- Writes queries against local and remote data

Globalization support

A multilingual version of this product is available in English, French, German, Japanese, Korean, Portuguese, Spanish, Simplified Chinese, and Traditional Chinese.

Bundled offerings

The IBM Rational Developer for System z V7.1 media package contains complimentary bundled offerings. Usage of and service support for these bundled offerings is subject to restrictions. These restrictions are described in the License Information documents. In order to use any of the bundled offerings outside of the usage restrictions and to receive full service support, you must obtain a separate license for the offering.

The bundled offerings included are:

IBM Rational Application Developer for WebSphere Software V7.0.0.3

- Helps developers quickly design, develop, analyze, test, profile, and deploy high-quality Web, SOA, Java, J2EE, and portal applications. Optimized for WebSphere software, this tool provides capabilities for deploying to other runtime platforms, helping customers increase productivity, minimize the learning curve, and shorten development and test cycles.
  
  For more information on this product, refer to 206-311, dated December 5, 2006.

IBM WebSphere Application Server for Developers V6.1

For more information on this product, refer to 206-076, dated April 11, 2006.

WebSphere Portal Enable for Multiplatforms V6.0

For more information on this product, refer to 206-163, dated July 11, 2006.

CICS Transaction Gateway for Multiplatforms V6.0.2

For more information on this product, refer to 205-147, dated June 14, 2005.

TXSeries for Developers V6.1

This is a special edition of IBM TXSeries for Multiplatforms V6.1 made for WebSphere Developer for System z V7.0. For more information on this product, refer to 206-267, dated October 24, 2006.
Education support

The following educational offerings are available as listed below:

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<td>Advanced Web-to-Host Application Integration using IBM WebSphere HATS</td>
<td>Classroom</td>
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<tr>
<td>SW837</td>
<td>CI CS AD support for SOAP and XML</td>
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<td>CI CS Application Programming I</td>
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<td>CI CS Application Programming with Java</td>
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<td>SW836</td>
<td>CI CS Web Enablement Programming Workshop</td>
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<td>Connecting CI CS to WebSphere Application server via CI CS Transaction Gateway</td>
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<td>Connecting the Enterprise CI CS Web Enablement</td>
<td>Self-study</td>
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<td>EGL and JSF Development using WebSphere Developer for Systemz</td>
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<td>Intro to Web Services Development with IBM Rational Application Developer</td>
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<td>JA321</td>
<td>Introduction to Developing OO Applications with Java for Procedural Developers</td>
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<td>SW500</td>
<td>Introduction to EDI Concepts and Standards</td>
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IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training Web site http://www.ibm.com/services/learning/ites.wss/tp/en?pageType=tp_search

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

### 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 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

#### Hardware requirements

- Processor: 800 MHz Pentium® III, or higher
- Memory minimum: 1 GB RAM
- Disk space: Minimum 2 GB of disk space is required to install the product. Additional disk space is required for the resources that you develop.
  - Disk space requirements can be reduced depending on the features that you install.
  - Additional disk space is required if you download the electronic image to install the product.
  - Additional disk space is required if you use FAT32 instead of NTFS.
  - An additional 650 MB of disk space is required in the TEMP directory.
- Display: 1024 x 768 display minimum using 256 Colors (Higher is recommended.)
- Other hardware: Microsoft™ mouse or compatible pointing device
Software requirements: Before you can install the product, verify that your system meets the software requirements.

Operating systems
The following operating systems are supported for this product:

- Windows XP Professional — Service Pack 2
- Windows Server 2003 Enterprise Edition — Service Pack 1
- Windows Vista Business — No service level required
- Windows Vista Enterprise — No service level required
- Windows Vista Ultimate — No service level required

Notes
- The previously listed operating systems support all of the national languages that are supported by Developer for System z.
- Important: To enable users who do not have Administrator privileges to work with Developer for System z and IBM Rational Application Developer on a Windows Vista system, do not install inside the Program Files directory (C:\Program Files).
- Developer for System z was developed for use with an Eclipse IDE of version 3.2.2 or greater that uses at least version 1.5 of the IBM Java Development Kit (JDK). You may only extend an existing Eclipse IDE that meets these requirements.
- Developer for System z is compatible with Vista but does not take full advantage of the new capabilities within Vista.
- You must install using an Administrator ID when installing Developer for System z Microsoft Vista operating systems.

Additional software requirements
Developer for System z requires the following to be installed as a prerequisite to installation.

Note: For information about supported database servers, Web application servers, and other software products, refer to the online help.

IBM Rational Application Developer or IBM Rational Software Architect
Developer for System z requires either the IBM Rational Application Developer V7.0.0.3 offering or the IBM Rational Software Architect V7.0.0.3 offering to be installed as a prerequisite to installation.

<table>
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<tr>
<th>Program number</th>
<th>Product name</th>
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<tbody>
<tr>
<td>5724-J19</td>
<td>IBM Rational Application Developer V7.0.0.3</td>
<td>No PTF or Service Level Required</td>
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<tr>
<td>5724-I70</td>
<td>IBM Rational Software Architect V7.0.0.3</td>
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</table>

- IBM Rational Developer for System z requires either IBM Rational Application Developer V7.0.0.3 or IBM Rational Software Architect V7.0.0.3 be installed. IBM Rational Application Developer is included on the IBM Rational Developer for System z media and the installation wizard guides you through the simultaneous installation of both.

Note: If you already have IBM Rational Developer or Rational Software Architect installed on your system, you will need to update to V7.0.0.3 prior to installing. Refer to the installation guide for additional information about the features that are required for the installation.

- TCP/IP installed and configured
- One of the following Web browsers (to view readme files and the installation guide):
  - Microsoft Internet Explorer 6.0 with SP1®
– Mozilla 1.6 or 1.7 plus all available maintenance
– Firefox 1.0 or 1.5 plus all available maintenance

• Adobe Flash Player, Version 6.0 Release 65, or later, with all available maintenance (to view multimedia user assistance, such as tours, tutorials and show-me servlets)

• Adobe Reader Version 7.0, or later, with all available maintenance (to view product documentation PDFs)

• To support applications with embedded CICS statements, TX Series for Multiplatforms Version 6.1, with the appropriate PTF

• To support applications with embedded CICS statements, DB2 Enterprise Server Edition V9.1 for Windows

• User privilege requirements
  – Your user ID must not contain double-byte characters.
  – You must have a user ID belonging to the administrators group.

Note: To enable users who do not have Administrator privileges to work with Developer for System z and IBM Rational Application Developer on a Windows Vista system, do not install inside the Program Files directory (C:\Program Files). Developer for System z is compatible with Vista but does not take full advantage of the new capabilities within Vista. You must install using an Administrator id when installing Developer for System z Microsoft Vista operating systems.

Note: For more details about Rational Developer for System z software requirements, such as the required components and PTFs for the programs listed here, refer to the softcopy publication Prerequisites for IBM Rational Developer for System z (SC31-6352).

Host prerequisites
Detailed information about the following host prerequisites and corequisites can be found in the RDz Host Planning Guide.

• IBM z/OS, V1.7, or later

• One of the following IBM REXX levels installed on the host:
  – IBM REXX/370 Library, Version 1.4
  – IBM REXX/370 Alternate Library 1.4

Corequisites

Note: The following products and other stated software are required to support specific features of IBM Rational Developer for System z. The workstation client can be successfully installed without these corequisites; however, a stated corequisite must be installed and operational at run time for the corresponding feature to work as designed.

For applications using Remote System Explorer server, IBM Software Developer Kit (SDK) for z/OS Java 2 Technology Edition, V1.4 or V1.5

To compile C and C++ programs developed or edited within Rational Developer for System z — IBM z/OS C/C++, V1.7

To compile COBOL programs developed or edited within IBM Rational Developer for System z — One of the following:

• IBM Enterprise COBOL for z/OS V3.1 (5655-G53) plus PTFs
• Enterprise COBOL for z/OS V3.2 (5655-G53), or later

To compile PL/I programs developed or edited within IBM Rational Developer for System z — IBM Enterprise PL/I for z/OS V3.1 (5655-H31) plus PTFs, or later

To compile High-Level Assembler programs developed or edited within IBM Rational Developer for System z — IBM High-Level Assembler/MVS™ and VM and VSE, V1.7

To support remote debugging of COBOL, PL/I, C/C++, and High-Level Assembler programs from IBM Rational Developer for System z — One of the following:
• IBM Debug Tool for z/OS V6.1, V7.1 or V8.1 with all available maintenance
• Debug Tool Utilities and Advanced Functions for z/OS V6.1, V7.1 or V8.1 with all available maintenance

Note: Debug Tool Utilities and Advanced Function is a superset of Debug Tool. Either will support the remote debugging and must be purchased separately.

To support applications with embedded CICS statements — One of the following:

• CICS Transaction Server for z/OS, V2.2 or V2.3, or later
• CICS Transaction Server for z/OS, V3.1 with appropriate PTFs
• CICS Transaction Server for z/OS, V3.2

Note: CICS TS V3.2 is required to support new features of the enterprise service tools, such as the new mapping and runtime levels of WSBind files and WSBind files generated with or from SOAP 1.2 and WSDL 2.0-based services.

To support applications using IMS — One of the following:

• IMS, V8.1, or later
• IMS, V9.1, or later
• IMS, V10

To support DB2 for z/OS or OS/390® — One of the following:

• DB2, V7.1, or later with appropriate PTFs
• DB2, V8.1
• DB2, V9.1

To support File Manager Integration — File Manager V8.1

To support Fault Analyzer integration — Fault Analyzer V7.1 or later with appropriate PTFs

Planning information

Customer responsibilities: Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the 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 Maintenance with each program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available.

Packaging: IBM Rational Developer for System z V7.1 CD.

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.

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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.
To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

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

To locate an IBM Business Partner, visit

http://www.ibm.com/software/solutions/isv

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**Ordering information**

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

**Product information**

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**Charge metrics definitions**

**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.

**Floating user**

You may utilize the program, including installation of the program on multiple servers, provided that use of the program occurs via a license server, and the total number of concurrent users does not exceed the total number of floating user licenses obtained for the program.

**Passport Advantage program licenses**

**IBM Rational Developer for System z**

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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.

RDz V7.1.0

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<th>Program name</th>
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<td>IBM Rational Developer for System z</td>
<td>5724-T07</td>
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