



IBM Rational Development and Test Environment for System z offers new and more flexible licensing options

Table of contents

1 Overview	6 Technical information
2 Key prerequisites	7 Ordering information
2 Planned availability date	10 Terms and conditions
2 Description	12 Prices
5 Program number	13 Order now
6 Publications	

At a glance

The low-cost Rational® Development and Test Environment for System z® provides a personal or team-centric, System z test environment for developers to implement and test their code changes in an isolated and controllable environment while reducing the consumption of mainframe MIPS for development activities.

Overview

The Rational Development and Test Environment for System z, based on the IBM® System z Personal Development Tool, creates a team-focused, System z development and test platform running on an x86 desktop or server. The new release of Rational Development and Test Environment for System z revolutionizes the way organizations develop and test mainframe applications, improving development and test system availability via a virtual System z architecture environment for development and functional-level testing.

Rational Development and Test Environment for System z allows mainframe operating systems, middleware, and software to run on Intel™ and Intel-compatible platforms so no System z mainframe hardware is needed for the initial set of development activities. Rational Development and Test Environment for System z may be used for development and test of new application function as well as maintenance changes. Additionally, Rational Development and Test Environment for System z is licensed for the investigation and verification of new middleware levels (version-to-version upgrades), prototyping new application architectures, demonstration of application function, or internal employee education.

Rational Development and Test Environment is not licensed for access by third-party users, including but not limited to hosting external training or hosting services for other companies. For clarification on licensing or use cases contact your IBM sales representative.

This release of the Rational Development and Test Environment provides more flexible licensing including Floating User options for sharing a single license between multiple users. Additionally, the product can now be purchased as a stand-alone entry point into the Rational development solutions for System z. This lowers the cost of initial purchase, opening the environment for use by developers, testers, and operations personnel, and provides an easier path to adoption for traditional mainframe developers looking to modernize their development and test processes and infrastructure. This release also offers support for new versions of IBM operating

systems and middleware, including z/OS®, CICS®, IMS™, DB2®, WebSphere®, COBOL, PL/I, C++, Java™, HLASM, and JCL.

The Rational Development and Test Environment for System z V8.5 fully replaces the Rational Developer for System z Unit Test Feature V7.6 and V8.0.

Rational Development and Test Environment for System z can only be used for development, test, employee education, or demonstration of applications that run on z/OS. It may not be used for production workloads of any kind, nor robust development workloads including without limitation production module builds, pre-production testing, stress testing, or performance testing.

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

Key prerequisites

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

Planned availability date

May 10, 2012

- Electronic availability
- Media availability

Description

Rational Development and Test Environment for System z, based on the IBM z Personal Development Tool provides a small-scale, team-centric development and test platform for developers, testers, and operations personnel running z/OS and z/OS middleware, but on an Intel or Intel-compatible (x86) Personal Computer (PC) or server. This eliminates the cost differentials that exist between distributed and existing mainframe development environments. Running a small-scale System z development environment on a PC allows a more portable, flexible, and lower-cost environment for individual development teams.

Rational Development and Test Environment for System z can only be used for development, test, employee education, or demonstration of applications that run on z/OS. It may not be used for production workloads of any kind, nor robust development workloads including without limitation production module builds, pre-production testing, stress testing, or performance testing.

Rational Development and Test Environment for System z may be used for development and test of new application function as well as maintenance changes. Additionally, Rational Development and Test Environment for System z is licensed for the investigation and verification of new middleware levels (version-to-version upgrades), prototyping new application architectures, demonstration of application function, or internal employee education and training. Rational Development and Test Environment for System z may be used with IBM or third-party ISV (Independent Software Vendor) tools to support development and test activities including:

- Source code or binary editors
- Integrated development environments (IDE)
- Development-level source code compile and build systems
- Analysis and problem determination tools
- Data import, export, inspection, and alteration utilities

- Middleware or application setup and configuration tools

Rational Development and Test Environment for System z is not licensed for access by third-party users, including but not limited to hosting external training or hosting services or environments for other companies. Also the Rational Development and Test Environment for System z is not licensed for use with the production management tools or performance testing tools, including but not limited to:

- Production-level source code management (SCM) repositories or libraries
- Production-level build and deploy systems
- Performance tuning tools

Any usage of third-party ISV tools must be arranged via the ISV directly, not through IBM, and must comply with the license terms as provided by the ISV and IBM at all times. For clarification on licensing or use cases contact your IBM representative or product management.

The Rational Development and Test Environment for System z provides a more modern, agile developer workbench to accelerate delivery of new workloads spanning multiple runtimes. The Rational Development and Test Environment for System z can be assigned to a single developer in a small system configuration, or can support small-scale team environment on a server platform. These environments can be tailored to a single developer or a team's runtime needs without altering existing mainframe testing environments.

The Rational Development and Test Environment for System z can provide a greater level of control for developers to implement quick environment changes, such as defining new transactions and resource definitions using the CICS Explorer® tools in Rational Developer for System z, without having to involve production operations staff to setup these configurations on the mainframe.

Developers also have easier access to modern versions of the IBM middleware, in the Development and Test environment without having to wait for system upgrades on the mainframe. Developers can explore new CICS or IMS features, investigate new architectural models, and perform their first series of tests as well as component regression testing, without worrying about changes coming from other developers causing unexpected errors. Using the Development and Test Environment developers can build and test System z applications anywhere and anytime, without impacting the production operations of an organization.

This release of the Rational Development and Test Environment for System z includes new System z compatibility including:

z196 Architecture compatibility

- Access exception fetch/store indication
- BFP and DFP enhancements
- Problem state instruction determinism
- IPTE-range facility
- New general instructions
- Nonquiescing-key facility
- PER Zero-Address Detection
- RRBE multiple

z196 Crypto - Crypto Express® 3 Compatible (CEX3C)

Supported encryption modes

- DES(56-bit, 112-bit, and 168 bit) - (Encryption and decryption, MAC, key management of both symmetric and RSA keys, financial transactions including PIN processing and credit card transactions)

- AES (128-bit, 192-bit, and 256-bit) (Encryption and decryption and management of RSA, ECC, and AES keys)
- ECC (Brainpool p-160 to p-512 and Prime p192 to 521)-(ECC digital signatures) - SHA-1, SHA-224, SHA-256, SHA-384, SHA-512 (Hashing) - MD5 - (hashing)
- RSA (up to 4096 bits in length) - RSA-based digital signatures, key generation, key management for symmetric keys.

Supported key management algorithms

- RSA (up to 4096 bits in length)
- Diffe-Hellman (up to 2048 bits in length)
- DES (112-bit)
- AES (up to 256-bit, using AESKW)

Performance

- Improved instruction execution
- Improved shared emulated ECKD™ locking

The Rational Development and Test Environment for System z comes packaged with a newly updated and preconfigured set of IBM software entitled for development usage specifically in the Rational Development and Test Environment for System z including:

- z/OS V1.12 and V1.13, including subfeatures
- WebSphere Application Server for z/OS V7.0, and V8.0
- CICS Transaction Server (CICS TS) V3.2, V4.1, and V4.2
- IMS V11.1
- DB2 for z/OS, V9.1 and V10.1
- WebSphere MQ for z/OS, V7.0
- IBM Java SDK for z/OS, V5.0 and V6.0
- Enterprise COBOL V4.2
- Enterprise PL/I V4.1
- XL C++ V1.12 and V1.13
- IBM Rational COBOL Runtime V6.0 (EGL)
- IBM Debug Tool V11.1

The included IBM software products are provided for development purposes only on an as-is basis. No technical support or APAR/PTF deliverables are provided for the included software as listed in the Supporting Programs section of the product license with your purchase of the Rational Development and Test Environment for System z.

Increased application quality

Rational Development and Test Environment for System z provides a high-fidelity test environment comparable to what is available on the mainframe. By using actual z/OS middleware, less retesting and rework is required when moving applications from the Development and Test Environment to the quality assurance or pre-production environment on the mainframe. Developers can have an isolated test environment to test application changes that can then be easily merged into the next level of testing using tools such as Rational Team Concert™.

It should be noted that Rational Development and Test Environment for System z is not intended as a replacement for a larger mainframe system. IBM recommends the final testing of software be done in an environment as close as possible to what would be run in production. This requires a stress test environment that can only be satisfied with the capabilities delivered by a System z mainframe.

Decreased cost

The IBM Rational Development and Test Environment executes on an x86 PC, utilizing zero development MIPS on the production mainframe for functional application testing. The development MIPS can be reallocated to other production or testing needs, freeing additional capacity for new workload while reducing line-of-business development costs and chargeback.

Purchasing options

The Rational Development and Test Environment for System z provides a simplified package from what was available previously with Rational Developer for System z Unit Test. Customers can purchase either Authorized Users or Floating Users licenses and configure the Development and Test Environment in either desktop or server configurations for a single user price. The Development and Test Environment will support up to a 4-CPU configuration, providing 3 CPUs for the product and 1 CPU dedicated to run the underlying Linux™ operating system. This provides a platform with the provided middleware to facilitate an individual or small team configuration.

Note: At this time the Floating User option is only available for users logging in through TSO or Rational Developer for System z. If the intent is to utilize the Rational Development and Test Environment for System z from an external service interface, for example executing a CICS transaction via CICS Transaction Gateway, Authorized User licenses are required.

Running the Rational Development and Test Environment for System z

The Rational Development and Test Environment for System z can be purchased as a stand-alone product. The Development and Test Environment is licensed and activated via a USB hardware device and License Server, which is provided in the Development and Test Environment media pack. Each organization purchasing the Development and Test Environment will need to procure and activate at least one USB hardware device from IBM. If the USB hardware device is not present in the License Key server, and activated via the IBM activation process, then the Development and Test Environment software will be non-functional. Ensure that you order and activate the appropriate USB hardware device when making your purchase.

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

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

Availability of national languages

Product description	Language	General availability date
Rational Dev & Test Environment V8.5.0	Multilingual (French, Korean, Chinese-Simplified, Spanish, Portuguese-Brazilian, German, Japanese, Chinese-Traditional, English, Italian)	May 10, 2012

Program number

Program number	VRM	Program name
5725-G39	8.5.0	IBM Rational Development and Test Environment for System z

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Publications

No publications are shipped with this product.

The IBM Publications Center

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

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

Technical information

Specified operating environment

Hardware requirements

Rational Development and Test Environment for System z requires the following minimum hardware per Unit Test instance:

- 64-bit Intel compatible processors with one core per allocated z/OS CP plus one core for native Linux. Up to 3 z/OS CPs and one native Linux are supported per instance of Rational Development and Test Environment for System z
- 2 - 4 GB of memory per z/OS CP, plus 1 GB for native Linux
- 50 - 120 GB of disk space for z/OS
- At least one Ethernet adapter is required for OSA operation
- Rational Development and Test Environment for System z USB hardware device

Software requirements

Rational Development and Test Environment for System z requires the following minimum levels of Linux:

- SUSE Linux Enterprise Server version 11.2
- OpenSUSE version 11.2
- Red Hat Enterprise Linux version 6.0 or 6.1

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

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

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

Rational Development and Test Environment for System z

Rational Development and Test Environment for System z USB hardware device

Security, auditability, and control

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

Ordering information

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

Product information

Licensed function title	Product group	Product category
IBM Rational Development and Test Environment for System z	Rational for System z Tools	Rational for System z Tools
Program name	PID number	Charge unit description
IBM Rational Development and Test Environment for System z	5725-G39	Per Floating User Single Install
IBM Rational Development and Test Environment for System z	5725-G39	Per Authorized User Single Install

Charge metrics definitions

Authorized User Single Install

Authorized User Single Install is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. The program may be installed on any number of computers or servers, but if the Authorized User has accessed or has access to more than one Install of the program, the Authorized User requires a separate entitlement for each such Install. Licensee must obtain separate, dedicated entitlements for each Authorized User given access to the program on each Install in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned

other than for the permanent transfer of the Authorized User entitlement to another person.

Note: Some programs may be licensed where devices are considered users. In that case the following applies: Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate User of the program and requires an entitlement as if that device were a person.

Floating User Single Install

Floating User Single Install is a unit of measure by which the program can be licensed. A Floating User is a person who is accessing the program at any particular point in time. An Install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. The program may be installed on any number of computers or servers, but if the Floating User simultaneously accesses more than one Install of the program, the Floating User requires a separate entitlement for each such Install. Licensee must obtain separate entitlements for each Floating User simultaneously accessing the program on each Install in any manner directly or indirectly (for example: via a multiplexing program, device, or application server) through any means.

Note: Some programs may be licensed where devices are considered users. In that case the following applies: Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate User of the program and requires an entitlement as if that device were a person.

Passport Advantage program licenses

IBM Rational Development and Test Environment for System z

Part description	Part number
IBM Rational Development and Test Environment for System z	
Ratl Dev & Test Envirmt Per Au U Sgl Inst for Sys z Lic + SW S&S 12 Mo	D0M1VLL
Ratl Dev & Test Envirmt Per Au U Sgl Inst for Sys z Annual SW S&S Rnw1	E0D6CLL
Ratl Dev & Test Envirmt Per Au U Sgl Inst for Sys z SW S&S Reinstate 12 Mo	D0M1WLL
Ratl Dev & Test Envirmt Per Au U Sgl Inst for Sys z Initl FT Lic+S&S 12 Mo	D0M21LL
Ratl Dev & Test Envirmt Per Au U Sgl Inst for Sys z Subsq FT Lic+S&S 12 Mo	E0D6GLL
Ratl Dev & Test Envirmt Per Flt U Sgl Inst for Sys z Lic + SW S&S 12 Mo	D0PPRLl
Ratl Dev & Test Envirmt Per Flt U Sgl Inst for Sys z Annual SW S&S Rnw1	E0DT2LL
Ratl Dev & Test Envirmt Per Flt U Sgl Inst for Sys z SW S&S Reinstate 12 Mo	D0PPSLl
Ratl Dev & Test Envirmt Per Flt U Sgl Inst for Sys z Initl FT Lic+S&S 12 Mo	D0PQFLL
Ratl Dev & Test Envirmt Per Flt U Sgl Inst for Sys z Subsq FT Lic+S&S 12 Mo	E0DT8LL

Passport Advantage trade-up licenses

IBM Rational Devp and Test Envir for System z

Processor product	Trade-up product	Trade-up part number
IBM Rational Development and Test Environment for System z Competitive User	RDT AU USR SGL INST SYS Z TRDUP FR COMP USR Trdup Lic + SW S&S 12 Mo	D0PQGLL

IBM Rational Developer for System z Unit Test Desktop User	RDT AU USR SGL INST SYS Z TRDUP FR RDZUT DSKP USR Trdup Lic + SW S&S 12 Mo	D0PQHLL
Competitive User	RDT FLT USR SGL INST SYS Z TRDUP FR COMP USR Trdup Lic + SW S&S 12 Mo	D0PPULL
IBM Rational Development and Test Environment for System z	RDT FLT USR SGL INST SYS Z TRDUP FR RDT AUTH USR Trdup Lic + SW S&S 12 Mo	D0PPVLL
IBM Rational Developer for System z Unit Test Desktop User	RDT FLT USR SGL INST SYS Z TRDUP FR RDZUT DSKP USR Trdup Lic + SW S&S 12 Mo	D0PPVLL

Passport Advantage supply

Program name/description	Part number
Rational Dev & Test Environment V8.5.0	
IBM Rational Development and Test Environment for System z V8.5 Media Pack	BT0GVML
IBM Rational Development and Test Environment for System z 8.5 zOS 1.12 MPK	BT0GWML
IBM Rational Development and Test Environment for System z 8.5 zOS 1.13 MPK	BT0GXML

Passport Advantage customer: Media pack entitlement details

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

Rational Development & Test Environment V8.5.0

Entitled maintenance offerings description	Media packs description	Part number
IBM Rational Development and Test Environment for System z per Authorized User Single INSTALL for System z	IBM Rational Development and Test Environment for System z V8.5 Media Pack	BT0GVML
IBM Rational Development and Test Environment for System z per Authorized User Single INSTALL for System z	IBM Rational Development and Test Environment for System z 8.5 zOS 1.12 MPK	BT0GWML
IBM Rational Development and Test Environment for System z per Authorized User Single INSTALL for System z	IBM Rational Development and Test Environment for System z 8.5 zOS 1.13 MPK	BT0GXML
IBM Rational Development and Test Environment for System z per Floating User Single INSTALL for System z	IBM Rational Development and Test Environment for System z 8.5 zOS 1.13 MPK	BT0GXML
IBM Rational Development and Test Environment for System z per Floating User Single INSTALL for System z	IBM Rational Development and Test Environment for System z 8.5 zOS 1.12 MPK	BT0GWML
IBM Rational Development and Test Environment for System z per Floating User Single INSTALL for System z	IBM Rational Development and Test Environment for System z V8.5 Media Pack	BT0GVML

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

License Information form number

Program name	Program number	Form number
IBM Rational Devp and Test Envir for System z	5725-G39	L-DCWN-8RHT73

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program. This warranty does not apply to the Supporting Programs of the Rational Development and Test Environment for System z, which are provided unwarranted.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

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

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Maintenance is in effect. Note that the technical support does not include the Supporting Programs of the Rational Development and Test Environment for System z, which are provided unwarranted and unsupported. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-

specific, task-oriented questions regarding the installation and operation of the program product. Software Maintenance also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee. There is no support offered for the Supporting Programs IBM middleware portion of the Rational Development and Test Environment for System z.

Money-back guarantee

For clarification, note that if for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

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

Software Subscription and Support applies

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

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your *IBM Software Support Handbook* at

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

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

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

System i Software Maintenance applies

No

Educational allowance available

Not applicable.

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

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

Passport Advantage

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<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

Order now

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L3R 2Z1

Reference: AE001

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Note: Shipments will begin after the planned availability date.

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