IBM Rational Development and Test Environment for z Systems, V9.5 delivers improved mainframe compatibility and enhanced z/OS software and middleware for more comprehensive development and test capability

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At a glance

IBM® Rational® Development and Test Environment for z Systems™ provides a personal or team-based emulated z Systems architecture environment for development teams to implement and test their code changes in an isolated and controllable setting. Rational Development and Test Environment for z Systems emulates z Systems hardware on x86 processor-compatible platforms, thus adding more capacity for development and test activities.

Rational Development and Test Environment for z Systems, V9.5 delivers:

• Improved mainframe compatibility
• New z/OS® software levels
• Expanded virtualization support

Overview

Rational Development and Test Environment for z Systems creates a team-focused, z Systems development and test platform that runs on an x86 desktop or server.

Rational Development and Test Environment for z Systems:

• Allows mainframe operating systems, middleware, and other software to run on Intel™ and Intel-compatible platforms so that no z Systems hardware is needed for the initial phases of development activities
• May be used for development and test of new application function as well as application maintenance
• Can be used for the investigation and verification of new middleware levels (version-to-version upgrades), prototyping new application architectures, demonstration of application function, and internal employee education

Rational Development and Test Environment for z Systems, V9.5 offers the latest mainframe compatibility. This enables you to build applications to exploit the z13™ platform, z/OS V2.1, and other updated z/OS software.
For improved hardware utilization and simplified management, this release adds Xen hypervisor support to the list of virtualization technologies that are already supported: VMware vSphere, IBM zEnterprise BladeCenter Extension (zBX), and Kernel-based Virtual Machine (KVM).

Rational Development and Test Environment for z Systems can be used only for development, testing, employee education, or demonstration of applications that run on z/OS. It cannot be used for production workloads of any kind or for robust development workloads, such as, without limitation, production module builds, preproduction testing, stress testing, or performance testing.

Key prerequisites

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

Planned availability date

- May 26, 2016: Electronic delivery
- June 2, 2016: Media pack delivery

Description

Rational Development and Test Environment for z Systems provides a small-scale, team-centric development and test platform for developers, testers, and operations personnel that are responsible for applications that run on z/OS and z/OS middleware. However, Rational Development and Test Environment runs on an Intel or Intel-compatible (x86) PC or server. This helps eliminate the cost differentials that exist between distributed and existing mainframe development environments.

Running a small-scale, z Systems development environment on a PC allows a more portable, flexible, and potentially lower-cost environment for development teams.

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

- 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 z Systems is not licensed for use with production management tools or performance testing tools that include, but are 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 through the ISV directly, not through IBM. Usage 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.

The Rational Development and Test Environment for z Systems provides a more modern, agile developer platform to help accelerate delivery of new workloads spanning multiple runtimes. Rational Development and Test Environment for z Systems 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 z Systems 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(R) tools in Rational Developer for z Systems. Greater control can be achieved without having to involve production operations staff to set up these configurations on the mainframe.

Developers also have easier access to recent versions of the IBM middleware that come with Rational Development and Test Environment for z Systems, without having to wait for system upgrades on the mainframe. Developers can explore new CICS(R) or IMS(TM) features, investigate new architectural models, and perform their first series of tests as well as component regression testing. Developers can build and test z Systems applications anytime on their PC, without impacting the production operations of an organization.

This release of the Rational Development and Test Environment for z Systems offers new z Systems compatibility. It includes the z Personal Development Tool (zPDT(R)) Version 1 Release 6 software, which offers:

- New instructions corresponding to the z13 architecture:
  - DFP Packed Conversion Facility
  - Load/Store-on-condition Facility 2
  - Load-and-Zero-Right most-Byte Facility
  - CPACF supports MSA5 (random number generation)
  - Vector Facility (SIMD) with 139 new instructions and 32 registers of 128 bits
- New cryptographic adapter levels corresponding to CEX5S:
  - Maximum number of domains (per emulated adapter) is 16
  - Format Preserving Encryption instructions
- DCP Assist Crypto Facility (CPACF) updates
- Support for the System Time Protocol (STP)
- Improved messages for installation activities
- Support for read-only DASD volumes
- CFCC 20 Coupling Facility, service level 16 (available in Rational Development and Test Environment for z Systems with Parallel Sysplex(R) offering)

Rational Development and Test Environment for z Systems V9.5 comes packaged with a newly updated and preconfigured set of IBM z/OS software for development usage. This software includes:

- z/OS V2.1, including subfeatures
- WebSphere(R) Application Server for z/OS, V8.0 and V8.5
- CICS Transaction Server (CICS TS) V4.2, V5.1, and V5.2
- IMS V12.1 and V13.1
- DB2(R) for z/OS, V10 and V11
• WebSphere MQ for z/OS, V8.0
• IBM Java™ SDK for z/OS, V6.0, V6.0.1, V7.0, and V8.0
• Enterprise COBOL V5.2
• Enterprise PL/I V4.5
• Rational COBOL Runtime V6.0.1 (EGL)
• IBM Debug Tool V13.1

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 z Systems.

Rational Development and Test Environment for z Systems also includes the z/OS components of additional Rational products to aid in performing integrated software delivery scenarios with Rational Development and Test Environment for z Systems. These components include:

• Rational Developer for z Systems, V9.1.1 z/OS components for easy integration of Rational Development and Test Environment for z Systems with Rational Developer for z Systems to enable off host edit, compile, and debug. Note that use of these components requires purchase of licenses of Rational Developer for z Systems or Rational Developer for the Enterprise.
• Rational Team Concert™ V6.0 z/OS components, for easy integration of Rational Development and Test Environment for z Systems with Rational Team Concert to enable off host preproduction builds. Note that use of these components requires purchase of appropriate Rational Team Concert licenses.
• IBM UrbanCode™ Deploy Agent for z/OS Workloads V6.1.1.6 for easy deployment of z/OS applications onto Rational Development and Test Environment for z Systems for development and test activities.

Other Rational Development and Test Environment for z Systems enhancements include:

• Packaging of the Rational Integration Tester V8.7 components that are required to enable virtualization of CICS, IMS, and DB/2 invocations on Rational Development and Test Environment for z Systems. Note that use of these components requires purchase of appropriate Rational Integration Tester licenses.
• Packaging of File Manager for z/OS and Fault Analyzer for z/OS for evaluation purposes only. Contact your IBM software representative to begin an evaluation.
• Packaging of z/VM® V6.3 in the Rational Development and Test Environment for z Systems with Parallel Sysplex offering.
• Support for virtualization through the Xen hypervisor, for improved hardware utilization and simplified management.

Increased application quality

Rational Development and Test Environment for z Systems provides an environment that is functionally comparable to what is available on the mainframe. By using the actual z/OS operating system and middleware, less retesting and rework may be required when moving applications from Rational Development and Test Environment for z Systems to the quality assurance or preproduction 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.

It should be noted that Rational Development and Test Environment for z Systems is not intended as a replacement for a mainframe. The final testing of software must be done in an environment as close as possible to that which would run in production. This requires an environment that can only be satisfied with the capabilities delivered by a z Systems mainframe.
Potentially decreased cost

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

Purchasing options

Rational Development and Test Environment for z Systems, V9.5 includes two offerings:

- Rational Development and Test Environment for z Systems. The base environment, for development, test, employee education, or demonstration of applications that run on z/OS. Purchase Authorized User Single Install licenses or Resource Value Unit (RVU) licenses, depending on intended usage. The maximum number of z System emulated Central Processors per Rational Development and Test Environment for z Systems instance is three.

- Rational Development and Test Environment for z Systems with Parallel Sysplex. This includes the base environment for development, test, employee education, or demonstration of applications that run on z/OS, plus IBM z Personal Development Tool support for virtual Coupling Facility and the z/VM software distribution to enable virtual coupling of z/OS guests under z/VM. This offering is targeted for enterprise teams, and thus only RVU licenses are offered. The maximum number of z System emulated Central Processors per Rational Development and Test Environment for z Systems with Parallel Sysplex instance is eight.

Note that the Rational Development and Test Environment for z Systems with Parallel Sysplex offering is intended for customers who already have Parallel Sysplex applications deployed. Installation and configuration of z/VM is required in order to deploy z/OS in a parallel sysplex configuration. z/OS in a parallel sysplex configuration may only be run as guest operating systems under z/VM. Usage of z/VM is restricted to operations required to facilitate use of the IBM z Personal Development Tool in a parallel sysplex configuration including z/OS guests under z/VM and one or more virtual Coupling Facility. The Parallel Sysplex offering is sold through the IBM special bid process. For ordering, contact your IBM representative, or an IBM Business Partner.

Running Rational Development and Test Environment for z Systems

The Rational Development and Test Environment for z Systems is purchased as a stand-alone product. The Rational Development and Test Environment for z Systems is licensed and activated through a USB hardware device and License Server, which are provided in the Rational Development and Test Environment for z Systems package. The USB hardware device is orderable through a physical media pack. Each organization that purchases 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 available and accessible to the Rational Development and Test Environment for z Systems instance through its presence in a License Key server or locally installation, and activated through the IBM activation process, then the development and test environment software will be nonfunctional. Ensure that you order and activate the appropriate USB hardware device. You can order the USB hardware device as soon as you become entitled to Rational Development and Test Environment for z Systems, or you can ask your representative to add the appropriate media part number to your Rational Development and Test Environment for z Systems order.

Rational Development and Test Environment for z Systems, V9.5 license information

The following text is taken from the Rational Development and Test Environment for z Systems license agreement document that is included with your purchase. It is included here for your convenience and understanding of the terms and conditions around the use of the program. This text is not inclusive.
Program-unique terms

Licensee may use the program only for development, testing, employee education, or demonstration of Licensee's applications that run on z/OS. Licensee cannot use the program for production workloads of any kind or for robust development workloads, such as, without limitation, production module builds, preproduction testing, stress testing, or performance testing.

When determining the number of entitlements required for Licensee's installation or use of the program, Licensee is allowed to define up to two log-in identifiers for use by system programmers (for example, system administrators or database administrators) to support Licensee development and test activities, which are not used to determine the number of entitlements required for the program.

- Supporting Program Details
- All Supporting Programs
- Support: Nonsupported
- File Manager for z/OS
  - Use Limitations: Evaluation
- Fault Analyzer for z/OS
  - Use Limitations: Evaluation

"Nonsupported" means the Supporting Programs are provided without obligation of support and "AS IS", WITH NO WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE WARRANTY OF TITLE, NON-INFRINGEMENT OR NON-INTERFERENCE AND THE IMPLIED WARRANTIES AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

"Evaluation" means that Licensee may use the Supporting Program for evaluation purposes only and not for use in a production environment.

The Program is accompanied by a hardware device containing a license key that controls Licensee's access to all or portions of the Program. Licensee is not authorized to use the Program or any component of the Program except when that key is made available to the Program. Licensee agrees not to tamper with the hardware device or license key or otherwise attempt to circumvent the access controls implemented by the key.

Notwithstanding any other provision in the Agreement, in the event Licensee uses the Program for a non-authorized use, IBM may terminate the Agreement at any time. Upon any such termination, and in addition to any other remedies IBM may pursue, Licensee must discontinue use of the Program and return the associated Program hardware device to IBM.

Accessibility by people with disabilities

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

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<th>Program number</th>
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<td>5725-G39</td>
<td>9.5</td>
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Offering Information
Product information is available via the Offering Information website.

Also, visit the http://www.ibm.com/software/passportadvantage website.

**Publications**

The IBM 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. 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**

Disk space: 50 GB of disk space is required.

Memory: 3 GB of RAM is required.

Processor: Minimum processor rating: 2.0 GHz, or higher; Intel Core 2 Duo, Generation 1 Intel i3, or equivalent processor required.

**Software requirements**

Linux™:

- Red Hat Enterprise Linux (RHEL) Server 6 Update 5 x86-64
- Red Hat Enterprise Linux (RHEL) Server 6 Update 4 x86-64
- Red Hat Enterprise Linux (RHEL) Server 6 Update 4 x86-64
- Red Hat Enterprise Linux (RHEL) Server 6 Update 2 x86-64
- Red Hat Enterprise Linux (RHEL) Server 6 Update 2 x86-64
- Red Hat Enterprise Linux (RHEL) Server 6 Update 5 x86-64

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. Such information is provided subject to the following Statement of Good Security Practices: 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, misappropriated, or misused, or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service, or security measure can be completely effective in preventing improper use or access. IBM systems, products, and services are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important**: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

**Planning information**

**Packaging**

Rational Development and Test Environment for z Systems
This program, when downloaded from a website, 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.

## Ordering information

Product: Rational Development and Test Environment for z Systems

### Passport Advantage<sup>®</sup>

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### Charge metric

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<td>Resource Value Unit (RVU)</td>
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### 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.

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.

### Resource Value Unit (RVU)

Resource Value Unit (RVU) is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for Licensee’s environment for the specific resources as specified in the table below. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource.

**General Charge Terms**

The Resource for the purpose of RVU calculation is an Activated Emulated Central Processor. An Emulated Central Processor is a functional unit within an emulated z Systems architecture environment that interprets and processes program instructions. Licensee must obtain sufficient entitlements to cover the highest number of Emulated Central Processors activated and made available for use by the program.
• From 1 to 2500 Resources, 1.0 RVU per Resource

• From 2,501 to 10,000 Resources, 2,500 RVUs plus 0.9 RVUs per Resource above 2,500

• From 10,001 to 25,000 Resources, 9,250 RVUs plus 0.8 RVUs per Resource above 10,000

• From 25,001 to 50,000 Resources, 21,250 RVUs plus 0.7 RVUs per Resource above 25,000

• For more than 50,001 Resources, 38,750 RVUs plus 0.5 RVUs per Resource above 50,000

Program-unique Terms specific to Rational Development and Test Environment for z Systems with Parallel Sysplex®

The program includes a virtual coupling facility. Licensee may use this capability for virtual coupling only, with z/OS guests under z/VM®. The program is not capable of and may not be used for physical coupling links.

Notwithstanding any provision in the Agreement, Licensee is not authorized to use the z/VM 6.3 Distribution except to support Licensee's use of the virtual coupling facility.

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).

Agreement for Acquisition of Software Maintenance

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program 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. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

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

**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.

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. 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 Subscription and Support (also referred to as Software Maintenance) is in effect.

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 Subscription and Support (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.

**Money-back guarantee**

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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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.

**Volume orders (IVO)**

No
Passport Advantage applies

Yes, and through the http://www.ibm.com/software/passportadvantage website.

Software Subscription and Support applies

Yes. 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 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, only 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.

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 http://www.ibm.com/software/passportadvantage website.

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

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 lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.
**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

### Prices

The prices are unchanged by this announcement.

### AP distribution

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* Brunei Darussalam, Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Philippines, Singapore, Thailand, Timor-Leste, and Vietnam

** Bangladesh, Bhutan, India, Maldives, Nepal, and Sri Lanka

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Terms of use

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