

IBM CICS Transaction Gateway V9.1 delivers mobile integration, connectivity modernization, and security enhancements

Table of contents

1 Overview	10 Program number
3 Key prerequisites	13 Technical information
3 Planned availability date	15 Ordering information
4 Description	24 Terms and conditions
9 Product positioning	33 Prices
9 Statement of direction	34 Order now
	35 Corrections

At a glance

IBM® CICS® Transaction Gateway (CICS TG), V9.1 delivers enhancements in the following areas:

- z/OS® Connect-compatible JSON web services that facilitate mobile enablement of your enterprise
- The CICS TG Java™ base classes packaged for use with an OSGi run-time environment, such as IBM WebSphere® Application Server Liberty profile
- Enhanced System management of IPIC connections, enabling zero-impact planned maintenance for specific CICS regions when combined with dynamic server selection
- Improved security features, including mapping of SSL client certificates to SAF user IDs and compliance with NIST SP800-131A
- Configurable failover for JCA connection factories with WebSphere Application Server using local mode IPIC connections
- Ability to test Java applications through connections to a virtual system, allowing for early capture of application regressions, including integration with Rational® Test Workbench
- Ability to audit and debug channel programs
- Exploitation of the IBM SDK for z/OS, Java Technology Edition, V7.1 and the IBM Runtime Environment, Java Technology Edition, Version 7.1 on AIX®, Linux™ and Microsoft™ Windows™

CICS Modernization Solution Pack for z/OS, V5.2 is updated to include CICS Deployment Assistant for z/OS (CICS DA), V5.2, CICS Interdependency Analyzer for z/OS (CICS IA®), V5.2, and CICS TG for z/OS, V9.1.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

CICS TG V9.1 enables simple and rapid mobile integration of your enterprise CICS Transaction Server (CICS TS) family or TXSeries™ environment. You can build on your existing, proven architecture to quickly provide mobile connectivity to back-end systems by using JavaScript™ Object Notation (JSON) web services.

Mobile enablement with CICS TG V9.1 is compatible with z/OS Connect, and can be achieved alongside traditional CICS TG workloads without modification to existing environments. This minimizes both risk and cost, while it retains the benefits of the proven, high availability and scalability of CICS TG.

Other functionality that is introduced in CICS TG V9.1 includes:

- The CICS TG Java base classes that are available for use with OSGi run-time environments, such as WebSphere Application Server Liberty profile.
- The exploitation of the CICS IP interconnectivity (IPIC) protocol heartbeat functionality that reduces the impact of connectivity problems by allowing failures to be detected and resolved faster.
- The ability to start and stop IPIC connections immediately, or in a controlled way. This eases planned changes or maintenance to a CICS TS system.
- Configurable failover for JCA connection factories with WebSphere Application Server V8.0, or later, by using IPIC local mode connections to CICS Transaction Server for z/OS, V4.1, or later.
- The exploitation of Secure Sockets Layer (SSL) connectivity for the .NET framework-enabled API, and full compliance with National Institute of Standards and Technology (NIST) Special Publication (SP) 800-131A for enhanced security.
- Mapping of SSL client certificates to System Authorization Facility (SAF) user IDs when using SSL client authentication and an External Security Manager (ESM), such as RACF®.
- The introduction of the Gateway intercept plug-in to facilitate automated regression testing with products such as the IBM Rational Test Workbench.
- Enhancements to CICS TG request monitoring to provide full access to channel and container payload data for monitoring tools.
- Support for 31-bit and 64-bit versions of the IBM SDK for z/OS, Java Technology Edition, V7.1. This release benefits from the enhancements to exploit IBM zEC12 instructions and of new capabilities available with z/OS V2.1, zEC12, and zBC12.
- Support for 32-bit version of the IBM Runtime Environment, Java Technology Edition, Version 7 Release 1 on AIX, Linux, and Microsoft Windows operating systems. This release benefits from fundamental improvements to the Java Virtual Machine (JVM) and Just In Time (JIT) compiler, and exploits the capabilities of new POWER® 8 hardware with AIX and Linux operating systems.

CICS Modernization Solution Pack for z/OS, V5.2 is updated to include CICS Deployment Assistant for z/OS (CICS DA), V5.2, CICS Interdependency Analyzer for z/OS (CICS IA), V5.2, and CICS TG for z/OS, V9.1.

CICS Explorer®

The CICS TG plug-in for CICS Explorer is updated to support CICS Explorer V5.2, IBM Explorer for z/OS (z/OS Explorer) V2.1, and to provide new data points available with CICS TG V9.1.

The CICS TG open beta program

The CICS TG V9.1 open beta program can be used to explore some of the new CICS TG capability announced here, assess its value to business, and plan for its adoption at General Availability. The CICS TG V9.1 open beta offering shows how new workloads, such as those driven by mobile devices, can be quickly and efficiently incorporated into existing CICS systems. Participants in the open beta program may also get direct access to CICS development resources, with the opportunity to provide early feedback.

The CICS TG V9.1 open beta offering is available for download directly from IBM, by visiting

<http://www.ibm.com/software/htp/cics/openbeta/>

To register interest in the CICS TG V9.1 open beta program, contact the CICS Early Programs coordinator by email, at cicsep@uk.ibm.com.

Early release programs disclaimer

IBM does not warrant that any version of the program that is formally released or made commercially available (if any) will be similar to, or compatible with, Early Release versions.

Key prerequisites

CICS TG V9.1 has the following key prerequisites:

- IBM z/OS V1.13, or later
- IBM AIX V6.1, or later
- Linux on System z®: Red Hat Enterprise Linux (RHEL) 6, SUSE Linux Enterprise Server (SLES) 11 (with 64-bit kernel)
- Linux on POWER: RHEL 6, SLES 11 (with 64-bit kernel)
- Linux on Intel™: RHEL 6, SLES 11 (with 64-bit kernel, including Desktop versions with 32-bit or 64-bit kernel)
- Linux on Intel: RHEL 6 compatible environments¹
- Microsoft Windows 7, Windows 8, Windows 8.1 Business, Professional, Enterprise and Ultimate Editions (with 32-bit or 64-bit kernel)
- Microsoft Windows Server 2012 Standard (including Small Business Server), Enterprise and Datacenter Editions (with 32-bit or 64-bit kernel)
- Microsoft Windows Server 2012 R2 Standard (including Small Business Server), Enterprise and Datacenter Editions (with 64-bit kernel)
- Oracle Solaris V10 (with 32-bit or 64-bit kernel)
- HP-UX11i V2 or V3 (with 64-bit kernel) on Itanium™
- IBM 31-bit SDK for z/OS, Java Technology Edition V7.1.0
- IBM 64-bit SDK for z/OS, Java Technology Edition V7.1.0
- IBM 32-bit Runtime Environment, Java Technology Edition, Version 7 Release 1 (on AIX, Linux and Microsoft Windows)
- IBM 32-bit Runtime Environment, Java Technology Edition, V7 Release 0 (on HP-UX and Solaris)

¹ Red Hat Enterprise Linux-compatible environments must be compatible with binary and source that is supported Red Hat Enterprise Linux versions previously listed.

For details, refer to the [Technical information](#) section.

Planned availability date

- September 5, 2014 (electronic distribution)
 - CICS TG for Multiplatforms V9.1
 - CICS TG Desktop Edition V9.1
- September 12, 2014 (general availability)
 - CICS TG for Multiplatforms V9.1 (media pack)
 - CICS TG Desktop Edition V9.1 (media pack)
 - CICS TG for z/OS, V9.1
 - CICS Modernization Solution Pack for z/OS, V5.2

Description

CICS TG, V9.1 offers existing CICS TG clients, and those new to CICS TG, new JSON and Representational State Transfer (REST) support to allow integration with mobile devices and mobile-optimized products, such as IBM Worklight® Server. JSON web services for CICS TG are z/OS Connect compatible and built upon proven IBM technologies.

CICS TG is the premier IBM enterprise connector suite. It is production proven for over 1000 clients as a high-performing, security-rich, and scalable method of service-oriented architecture (SOA) access to CICS TS family and TXSeries products. It provides the following capabilities:

- Delivers access to CICS applications for multiple types of client application, while requiring minimal changes to CICS and usually no changes to existing CICS applications.
- Provides quick and easy connector access to CICS applications from a wide variety of environments, including Java, JEE (JCA), C/C++, Microsoft.NET Framework-based applications, and COBOL runtimes.
- Enables the rapid deployment of CICS applications as fully scalable services in an enterprise-wide SOA.
- Allows the reuse of existing CICS applications as services in comprehensive and sophisticated JEE, and web services solutions hosted on powerful application servers, such as WebSphere Application Server.
- Allows CICS applications to be integrated with cloud-based infrastructure, through products such as IBM PureApplication® System (IBM Web Application pattern).

CICS TG products run on z/OS, Microsoft Windows, UNIX™, and Linux operating systems. They provide connectivity to CICS for JEE-certified application servers, as well as allow a wide range of application platforms to integrate with CICS. This includes Java applications, servlets, applets, Microsoft.NET Framework-based applications, C, and COBOL applications.

CICS TG supports common programming frameworks to allow a wide variety of application platforms to integrate securely with CICS. The Java Enterprise Edition Connector Architecture (JCA) provides the highest qualities of service (connection pooling, transaction management) for applications deployed to a JEE application server, such as WebSphere Application Server. Furthermore, the CICS TG API for Microsoft.NET Framework-based applications, C, COBOL, and Java applications allows Microsoft Windows, UNIX, and Linux platforms to exploit the robust and scalable connectivity available through CICS TG.

In addition to CICS TG for z/OS and CICS TG for Multiplatforms, CICS TG Desktop Edition delivers low-cost, desktop connectivity for CICS for Microsoft Windows, Linux, and UNIX operating systems. CICS TG Desktop Edition provides access from a single-user workstation to the tried and trusted transactional capabilities of the entire family of CICS servers.

CICS TG, V9.1 delivers enhancements in the following areas:

Service enablement

JSON web services for CICS TG, extends the support for mobile applications to the wider CICS family. This builds upon the support introduced by the CICS TS Feature Pack for Mobile Extensions and is z/OS Connect compatible. Common tooling and data transformation capabilities combine with the proven reliability and scalability of CICS TG to deliver robust integration of JSON web services with CICS TS.

Whether you require a bottom-up approach, to enable mobile applications to take advantage of existing business logic, or top-down, where the mobile application design specifies the interface, you can utilize the proven qualities of service of CICS

TG. This is together with Java, JEE, C and .NET applications, in areas such as high availability, scalability, security, and integrated monitoring capabilities.

Compatibility with z/OS Connect means that investment in the creation of WS BIND files for JSON data transformation is reusable, allowing the transfer of these assets between z/OS Connect-compatible solutions.

Modern connectivity

IP interconnectivity (IPIC) connections can now exploit the heartbeat functionality of the CICS IPIC protocol. This allows the availability of a connection to be more accurately understood when the underlying infrastructure may cause connections to be dropped silently.

IPIC connections can now be managed independently of the Gateway daemon life cycle. A new administration command allows IPIC connections to be stopped in a controlled way, or immediately, and re-established at a later time. This allows for planned changes or maintenance to CICS to be applied in isolation and leaves the Gateway daemon to continue processing requests.

When used with WebSphere Application Server V8.0, or later, the ECI resource adapter that is provided with CICS TG V9.1 allows the configuration of a failover connection. This capability is available for local mode configurations using IPIC connections with CICS TS V4.1, or later.

Security

The CICS TG .NET Framework-enabled API can now exploit secure SSL connectivity to match remote mode Java and JCA client applications. Security options are further enhanced through full compliance with the US National Institute of Standards and Technology (NIST) Special Publication 800-131A standard. This requires the use of stronger cryptographic keys and more robust algorithms, while it excludes weaker types of encryption. Java classes, JCA and the CICS TG .NET Framework-based API can exploit Transport Layer Security (TLS) 1.2-based secure connections.

Java, JCA, and .NET Framework-based remote mode applications, and now JSON web services that use HTTPS, can be configured to use SSL client authentication, where the validity of a client certificate is verified by the Gateway daemon. CICS TG for z/OS, V9.1 can automatically map an SSL client certificate to a SAF user ID, known to the External Security Manager (ESM). Early revocation of access to clients with valid certificates is achieved simply, using standard SAF-based controls. This new configuration option greatly reduces the effort required to map an SSL client certificate to a SAF user ID, and extends this capability to .NET Framework-based applications using SSL connectivity. Earlier releases of CICS TG for z/OS required both client and server-side user exit code, and was only available for Java and JCA applications.

Foundation

OSGi delivers many benefits for application programmers and system administrators, by providing the ability for software components to explicitly define dependencies upon interfaces and versions. CICS TG V9.1 provides the Java base classes for use in an OSGi run-time environment, such as WebSphere Application Server Liberty profile, when configured as a 3-tier (remote-mode) topology. The Java base classes are also known as *ctgclient.jar*, or the Java package *com.ibm.ctg.client*.

The Gateway intercept plug-in is a new facility that enables the implementation of Continuous Integration Testing with products, such as IBM Rational Integration Tester. The Gateway intercept plug-in provides a decision point in Java for CICS TG and JCA application run-time libraries, where an application request can either flow to the target CICS as usual, or can be intercepted and a suitable response provided from the Rational Integration Tester database. This capability effectively enables automated regression testing of Java and JCA-based applications, against a virtualized CICS test system.

Request monitoring is enhanced to provide full access to channel and container payload data, to enable monitoring tools to conduct request-level auditing and debugging for both COMMAREA and channel-based External Call Interface (ECI) applications.

CICS TG for z/OS, V9.1 requires z/OS 1.13, or later, and works with either the 31-bit or 64-bit version of the IBM SDK for z/OS, Java Technology Edition, Version 7 Release 1. CICS TG for z/OS, V9.1 automatically benefits from this level of the IBM SDK for z/OS, which offers:

- Exploitation of zEC12 instructions
- Exploitation of new capabilities available with z/OS, V2.1, zEC12, and zBC12, such as:
 - Java exploitation of Transactional Execution
 - Support of 2-GB pages (64-bit)

CICS TG for Multiplatforms V9.1 and CICS TG Desktop Edition V9.1 include the IBM Runtime Environment, Java Technology Edition, Version 7 Release 1 for AIX, Linux, and Microsoft Windows operating systems. This release benefits from fundamental improvements to the JVM and JIT compiler, and exploits the capabilities of new POWER 8 hardware with AIX and Linux operating systems.

CICS solution packs

CICS solution packs offer a convenient and more affordable way to purchase key products in the CICS Tools family, at a reduced inclusive price. They enable clients to benefit from investments in previously purchased products.

The CICS Modernization Solution Pack for z/OS, V5.2 delivers a comprehensive portfolio of IBM modernization tools for CICS that provides discovery, visualization, provisioning, and connectivity to help address key CICS modernization requirements. This feature pack consists of:

- CICS DA V5.2
- CICS IA V5.2
- CICS TG for z/OS, V9.1

These three CICS Tools products are complementary and make the modernization of CICS systems and applications both faster and easier by delivering new capability more quickly and reliably.

CICS Optimization Solution Pack for z/OS, V5.2 is also available, as a packaged solution that includes the following key CICS Tools to assist with performance tuning of CICS systems and application:

- CICS Configuration Manager for z/OS (CICS CM), V5.2
- CICS DA V5.2
- CICS IA V5.2
- CICS Performance Analyzer for z/OS (CICS PA), V5.2

CICS Explorer

CICS Explorer, the strategic management interface for CICS TS, is upgraded to CICS Explorer V5.2. This is a major update to support the latest CICS TS and CICS Tools capabilities.

The CICS TG plug-in for CICS Explorer is updated to support CICS Explorer V5.2, z/OS Explorer V2.1, and provide new data points available with CICS TG V9.1.

CICS TG V9.1 supports the latest release of CICS Explorer, which is enhanced to provide:

- Support for CICSplex® SM WLM.
- Improvements in support for modification of associated CICSplex SM workload definitions, using a new sophisticated editor.
- Intuitive access to information about the state of running workloads.

A CICS TG plug-in for CICS Explorer is available separately at no extra charge. Visit

<http://www.ibm.com/cics/explorer>

The CICS TG open beta program

IBM beta programs for software allow clients to sign up for and acquire early releases of a product for the purposes of testing, before it is made commercially available. Open beta programs do not usually require clients to register before they take part in the program. Typically, product offerings provided by a beta program:

- Are free of charge.
- Are not warranted.
- Have no support of any kind.
- May not be used for productive purposes.
- Contain a disabling device that will prevent it from being used after the test period ends.

Details of the terms and conditions of the beta program are found in the supplied license files for the offering.

Participants in the beta program gain insight into IBM strategy and direction, and are able to build skills and develop expertise. They also obtain earlier benefit and payback from new function, may gain competitive edge, and the opportunity for public recognition as a technology leader. Participants are encouraged to provide feedback and articulate their own requirements to IBM, with the potential to help influence the shape future IBM products.

The CICS TG open beta program is focused on delivering successful, early implementations of CICS TG to all worldwide clients. It provides early access to new CICS technologies and code, along with education, support, examples, and samples.

An online forum is provided for discussion and debate. The CICS development team will attempt to answer any questions and resolve any problems that may be encountered in the beta. Participants can also benefit from other participants' experiences, becoming part of a group, with a close working relationship with IBM development.

The CICS TG V9.1 open beta offering is available for download directly from IBM, by visiting

<http://www.ibm.com/software/htp/cics/openbeta/>

To register your interest in the CICS TG V9.1 open beta program, contact the CICS Early Programs coordinator by email, at cicsep@uk.ibm.com.

Accessibility by people with disabilities

The following features support use by people with disabilities:

- Operation by keyboard alone
- Optional font enlargement and high-contrast display settings
- Ability to run with screen readers and screen magnifiers for use by people with visual impairment

- Communication of all information independently of color

Online product documentation is hosted in the IBM Knowledge Center service. To request the accessibility status for the IBM Knowledge Center service, visit the IBM Product accessibility information web page, at

<https://www-03.ibm.com/research/accessibility/requests/accvpat.nsf/bidxjs?OpenForm>

Select IBM Knowledge Center - Hosted Edition.

An Information Center copy of the online product documentation is available for download from the IBM Publications Center. The Information Center is accessible to people with visual, physical, or hearing impairment. All functions can be performed without a mouse. Instead of viewing diagrams, users can choose to read text descriptions. Command syntax diagrams can be displayed in a format which is designed for visually-impaired users.

Some product documentation is provided in PDF format for download from the IBM Publications Center, and clients can create bespoke PDFs from the IBM Knowledge Center. PDF format is accessible using Adobe™ Acrobat Reader 8.0 or later.

A US 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 US Rehabilitation Act

CICS TG V9.1 and CICS Modernization Solution Pack for z/OS, V5.2 products are capable, as of September 12, 2014, when used in accordance with the 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.

Value Unit-based pricing

Value Unit pricing for eligible IBM System z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise

- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

<http://ibm.com/zseries/swprice/vuctool>

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the System z IPLA program you selected, refer to the [Terms and conditions](#) section.

Product positioning

CICS TG V9.1 builds on the extended scalability, application interoperability and flexible secure topologies that are delivered in CICS TG V9.0, by adding support for mobile applications through JSON web services.

All clients who are not yet running CICS TG V9 should make plans to upgrade to this version.

Statement of direction

IBM intends to deliver WebSphere Liberty z/OS Connect (z/OS Connect) as a common program component of CICS TG.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Reference information

For information on CICS TG, V9.0, refer to Software Announcement [212-323](#), dated October 3, 2012.

For information on CICS TS, V5.2, refer to Software Announcement [214-107](#), dated April 7, 2014.

For information on CICS TS Developer Trial, refer to Software Announcement [212-010](#), dated January 24, 2012.

For information on CICS TS Value Unit Edition, V5.1, refer to Software Announcement [213-168](#), dated April 23, 2013.

For information on CICS TS Feature Pack for Mobile Extensions V1.0 and CICS TS Feature Pack for Modern Batch V1.0, refer to Software Announcement [213-177](#), dated April 23, 2013.

For information on CICS TS Feature Pack for Dynamic Scripting, V2.0, refer to Software Announcement [213-323](#), dated August 13, 2013.

For information on CICS TS Feature Pack for Security Token Extensions, V1.0, refer to Software Announcement [213-461](#), dated October 8, 2013.

For information on the portfolio of CICS Tools products, V5.2, refer to Software Announcement [214-153](#), dated April 7, 2014.

For information on CICS Modernization Solution Pack for z/OS, V5.2, refer to Software Announcement [214-153](#), dated April 7, 2014.

For information on TXSeries, V8.1, refer to Software Announcement [213-462](#), dated October 8, 2013.

For information on z/OS Explorer, V2.1 and CICS Explorer, V5.1, refer to Software Announcement [212-374](#), dated October 3, 2012.

Program number

Program number (PID)	VRM	Program name
5655-Y20	9.1.0	CICS TG for z/OS
5724-I81	9.1.0	CICS TG for Multiplatforms
5725-B65	9.1.0	CICS TG Desktop Edition
5655-CD3	5.2.0	CICS Modernization Solution Pack for z/OS

Product identification number

CICS TG for z/OS, v9.1

Program PID number	Subscription and Support PID number
5655-Y20	5655-M70

CICS Modernization Solution Pack for z/OS, v5.2

Program PID number	Subscription and Support PID number
5655-CD3	5655-CD4

Offering Information

Product information is available via the Offering Information website

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

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).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=214-263>

Product documentation

CICS TG and CICS Modernization Solution Pack for z/OS product documentation is provided in three ways:

- Online, through IBM Knowledge Center
- In a downloadable Information Center
- In downloadable PDF manuals

Online information in IBM Knowledge Center

Online documentation for CICS TG and the component products of the CICS Modernization Solution Pack for z/OS is now hosted in IBM Knowledge Center. IBM Knowledge Center provides information for over 2,500 IBM products. The information that was previously provided in product Information Centers is in IBM Knowledge Center. IBM Knowledge Center provides integrated tools for finding, filtering, customizing, saving, and sharing information.

Benefits include:

- Consolidation: IBM Knowledge Center is one place to go to find information about all IBM products.
- Consistency: There were differences in the presentation and function of Information Centers between products. IBM Knowledge Center provides the same set of functions for all product information.
- Customization: Clients can use IBM Knowledge Center filtering capabilities to select the information that is most relevant to them, and build that information into customized collections for viewing online or in PDF. IBM updates to the information are automatically reflected in such collections.

For more information about the features of IBM Knowledge Center, see the welcome page, at

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

For the CICS TG V9.1 product documentation in Knowledge Center, for z/OS and Multiplatforms respectively, visit

http://www.ibm.com/support/knowledgecenter/SSZHJ2_9.1.0

http://www.ibm.com/support/knowledgecenter/SSZHFX_9.1.0

Information Center

Online documentation for CICS TG and the component products of the CICS Modernization Solution Pack for z/OS is provided for download to a client's environment in Information Centers. The CICS TG V9.1 Information Center consists of an IBM User Interface Help System, built on Eclipse, and information content as a set of document plug-ins. All documentation for CICS TG V9.1 is provided in a single, downloadable, Information Center, making it simple to obtain. The following CICS Information Centers are available for download from the IBM Publications Center:

Information center	Form number
CICS TG for z/OS V9.1 Info Center plug-in	SC34-2976
CICS TG for z/OS V9.1 Info Center on windows	SC34-2977
CICS TG for z/OS V9.1 Info Center on AIX	SC34-2978
CICS TG for z/OS V9.1 Info Center on Linux	SC34-2979
CICS TG for z/OS V9.1 Info Center on z/OS	SC34-2980

CICS TG for Multiplatforms V9.1 Info Center plug-in	SC34-2984
CICS TG for Multiplatforms V9.1 Info Center on Windows	SC34-2985
CICS TG for Multiplatforms V9.1 Info Center on AIX	SC34-2986
CICS TG for Multiplatforms V9.1 Info Center on Linux	SC34-2987

Documentation for the tools that are included with the CICS Modernization Solution Pack for z/OS is provided in the Information Centers for CICS TS V5.2:

Information center	Form number
CICS TS V5.2 Info Center on z/OS	SK4T-2709
CICS TS V5.2 Info Center on Windows	SK4T-2708
CICS TS V5.2 Info Center on Linux	SK4T-2707
CICS TS V5.2 Info Center on AIX	SK4T-2706

To obtain a relevant Information Center, visit the IBM Publications Center, at

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

PDF manuals

Documentation for CICS TG V9.1 is provided for download in PDF format. Clients can download individual manuals or a complete set, known as a Product Kit (PKIT). The PDF manuals are listed below and available for download from the IBM Publications Center. To download manuals or PKIT, visit the IBM Publications Center at

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

Publication	Form number
CICS TG for z/OS V9.1 Administration	SC34-2964
CICS TG for z/OS V9.1 Developing Applications	SC34-2965
CICS TG for Multiplatforms V9.1 Administration	SC34-2981
CICS TG for Multiplatforms V9.1 Developing Applications	SC34-2982
CICS TG for Multiplatforms V9.1 Programming Reference	SC34-2983
CICS TG V9.1 Messages	SC34-2966

Printed publications and CD-ROM

The following documentation is delivered on CD-ROM or printed with each product:

Title	Form number
CD-ROM	
CICS TG for z/OS V9.1 License Files	GC34-2988
CICS Modernization Solution Pack for z/OS V5.2 License Files	GC34-7317
Printed copy only	
CICS TG Product Documentation Flyer	GI13-3355
CICS Product Documentation Flyer	GI13-3348
CICS Technical Services Flyer	GI13-3350

Other CICS publications

For information on IBM Redbooks®, visit

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

For information on IBM Redpapers™, visit

<http://www.redbooks.ibm.com/Redbooks.nsf/redpapers/>

Technical information

Specified operating environment

Hardware requirements

CICS TG V9.1 will run on any of the following hardware, supported by an operating system listed in [Software requirements](#) section.

- z/OS: IBM System z
- AIX: IBM System p® machine supported by IBM AIX
- Linux: Intel Pentium™ IV or later processor, Intel x86-64 or AMD x86-64 processor; 64-bit IBM System p machine supported by Linux; IBM System z machine supported by Linux
- Microsoft Windows: Intel Pentium IV or later processor, Intel x86-64 or AMD x86-64 processor supported by Microsoft Windows
- Oracle Solaris: 32-bit or 64-bit SPARC system supported by Oracle Solaris operating systems
- HP-UX: 64-bit HP Itanium

For details of the latest hardware and software requirements for CICS TG offerings for z/OS and Multiplatforms respectively, visit

http://www.ibm.com/support/knowledgecenter/SSZHJ2_9.1.0

http://www.ibm.com/support/knowledgecenter/SSZHFX_9.1.0

Software requirements

The following is a summary of supported operating systems for CICS TG V9.1:

- z/OS V1.13, or later
- AIX V6.1, or later
- Linux on System z: RHEL 6, SLES 11 (with 64-bit kernel)
- Linux on POWER: RHEL 6, SLES 11 (with 64-bit kernel)
- Linux on Intel: RHEL 6, SLES 11 (with 64-bit kernel, including Desktop versions with 32-bit or 64-bit kernel)
- Linux on Intel: RHEL 6 compatible environments¹
- Microsoft Windows 7, Windows 8, Windows 8.1 Business, Professional, Enterprise and Ultimate Editions (with 32-bit or 64-bit kernel)
- Microsoft Windows Server 2012 Standard, Enterprise and Datacenter Editions (with 32-bit or 64-bit kernel)
- Microsoft Windows Server 2012 R2 Standard, Enterprise and Datacenter Editions (with 64-bit kernel)
- Oracle Solaris V10 (with 32-bit or 64-bit kernel)
- HP-UX11i V2 or V3 (with 64-bit kernel) on Itanium

¹ Red Hat Enterprise Linux compatible environments must be binary and source compatible with supported Red Hat Enterprise Linux versions listed above.

The CICS TG is designed to provide interoperability with all supported levels of CICS, the following list summarizes CICS servers currently supported by IBM:

- CICS TS V3.1, or later
- CICS TS Value Unit Edition V5.1, or later
- CICS TS Developer Trial V4.2, or later
- TXSeries for Multiplatforms V7.1, or later
- CICS TS for VSE/ESA V1.1.1
- CICS TS for i5/OS™ V6.1, or later

- CICS TS for i V7.1

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.

Limitations

For additional information, refer to [Usage restriction](#) topic in the [Technical information](#) section of this announcement, or to the license information document that is available on the IBM Software License Agreement website

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

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement, at no additional charge. Read about the Electronic Support portfolio of tools

<http://ibm.com/electronicssupport>

Access the IBM Support Portal

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

Access the online Service Request tool

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

User group requirements

This announcement satisfies or partially satisfies the following requirements from one or more of the worldwide user group communities.

The current set of requirements published for CICS TG is available from the IBM Request For Enhancement (RFE) community. Requirements can be created, viewed, and voted for. Visit:

<http://www.ibm.com/developerworks/rfe/>

RFE number	Description
24235	Failover capability between webSphere and multiple CICS regions via CICS TG local mode
32327	SHA-2 support in CICS TS for z/OS and CICS TG products
30961	Request monitoring exits to permit optional read-only access to channel payload data
30962	Provide the Gateway intercept plug-in interface for Java applications from SupportPac CA5F
43303	CICS TG support for OSGI bundles
22041	Allow an ECI connection factory to use RACF keyrings
22086	Capability to define a local IP Port for remote mode ECI applications

Planning information

Packaging

For CICS TG for z/OS, V9.1

CICS TG for z/OS, V9.1 is shipped using CBPDO or other customized offerings on 3590 tape. Also shipped is a License Information CD-ROM (GC34-2988).

For CICS TG for Multiplatforms V9.1 and CICS TG Desktop Edition V9.1

These distributed products will be delivered via Passport Advantage®. The software and documentation will be available for electronic download only. The media pack for CICS TG for Multiplatforms V9.1 and CICS TG Desktop Edition V9.1 will include:

- Program DVD
- Quick Start guide

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.

Security, auditability, and control

CICS TG V9.1 uses the security and auditability features of the operating system under which they are running. Customers can use any Security Authorization Facility (SAF)-compliant security product, such as RACF.

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

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

Product group: IBM CICS

Product Identifier	Description	Product number (PID)
IBM CICS Transaction Gateway for z/OS		5655-Y20
IBM CICS Transaction Gateway for Multiplatforms		5724-I81
IBM CICS Transaction Gateway Desktop Edition		5725-B65

Product category: CICS

Passport Advantage program licenses

Part description	Part number
------------------	-------------

CICS Transaction Gateway (CICS TG)

CICS TG PVU Annual SW Subscription + Support Renewal	E021BLL
------------------------------------------------------	---------

CICS TG Processor Value Unit (PVU) License + SW Subscription + Support 12 Months	D55KZLL
----------------------------------------------------------------------------------	---------

CICS TG PVU SW Subscription + Support Reinstatement 12 Months	D55L0LL
---------------------------------------------------------------	---------

CICS TG Desktop Edition

CICS TG Desktop Edition Authorized User License + SW Subscription + Support 12 Months	D0G84LL
---------------------------------------------------------------------------------------	---------

CICS TG Desktop Edition Authorized User Annual SW Subscription + Support Renewal	E0AI3LL
----------------------------------------------------------------------------------	---------

CICS TG Desktop Edition Authorized User SW Subscription + Support Reinstatement 12 Months	D0G85LL
-------------------------------------------------------------------------------------------	---------

Passport Advantage supply	Part number
---------------------------	-------------

CICS TG for Multiplatforms Version 9.1 Multilingual Media Pack	BA18JML
----------------------------------------------------------------	---------

CICS TG Desktop Edition for Multiplatforms Version 9.1 Multilingual Media Pack	BA18KML
--------------------------------------------------------------------------------	---------

Passport Advantage customer: Media pack entitlement details

Cross-platform product for use on or with System z

Order the part numbers that follow when the product is running on or connected to a System z server. Otherwise, order from the other set of part numbers in this announcement. This set of part numbers provides the identical supply and authorization as the other set presented in this announcement. There is only one set of media pack part numbers.

Program name/Description	Part number
--------------------------	-------------

CICS TG PVU Annual SW Subscription + Support Renewal	E0BH8LL
------------------------------------------------------	---------

CICS TG PVU License + SW Subscription + Support 12 Months	D0I1MLL
-----------------------------------------------------------	---------

CICS TG PVU SW Subscription + Support Reinstatement 12 Months	D0I1NLL
---------------------------------------------------------------	---------

CICS TG for zEnterprise® BladeCenter Extension and Linux on System z PVU Annual SW Maintenance Renewal	E021CLL
--------------------------------------------------------------------------------------------------------	---------

CICS TG for zEnterprise BladeCenter Extension and Linux on System z PVU License + SW Maintenance 12 Months	D55L1LL
------------------------------------------------------------------------------------------------------------	---------

CICS TG for zEnterprise BladeCenter Extension and Linux on System z PVU SW Maintenance Reinstatement 12 Months	D55L2LL
----------------------------------------------------------------------------------------------------------------	---------

CICS TG Desktop Edition Authorized User for zEnterprise BladeCenter® Extension and Linux on System z License + SW Subscription + Support 12 Months D0G8LLL

CICS TG Desktop Edition Authorized User for zEnterprise BladeCenter Extension and Linux on System z Annual SW Subscription + Support Renewal E0AIFLL

CICS TG Desktop Edition Authorized User for zEnterprise BladeCenter Extension and Linux on System z SW Subscription + Support Reinstatement 12 Months D0G8MLL

CICS TG Desktop Edition Authorized User License + SW Subscription + Support 12 Months D0I1PLL

CICS TG Desktop Edition Authorized User Annual SW Subscription + Support Renewal E0BH9LL

CICS TG Desktop Edition Authorized User SW Subscription + Support Reinstatement 12 Months D0I1QLL

On/Off Capacity on Demand (CoD)

CICS TG for z/OS, V9.1 and CICS Modernization Solution Pack for z/OS, V5.2 are eligible for On/Off CoD with a temporary use charge, calculated based on MSUs per-day usage.

IBM CICS Transaction Gateway

Part description	Part number
CICS TG Processor Day 00CoD Temporary Use Charge	ASQ68LL

Entitlement identifier	Description	License option/Pricing metric
S017CZR	CICS Modernization Solution Pack for z/OS, V5.2	Basic OTC, Per MSU-day TUC

The IBM z/OS programs in this announcement have Value Unit-based pricing.

For CICS TG for z/OS

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the US and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Passport Advantage

Information on Passport Advantage program licenses is available at the start of the [Ordering information](#) section in this announcement.

Passport Advantage trade up

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade-up part numbers.

Precursor product	Trade up product
CICS Universal Client (5724-J09)	CICS TG Desktop Edition (5725-B25)
Trade up part numbers	Description
D0G86LL	ICS TG Authorized User Trade Up from CICS Desktop Edition Universal Client 10 Processor Value Unit License + SW Subscription + Support 12 Months
D0G8NLL	CICS TG Desktop Edition Authorized User for zEnterprise BladeCenter Extension and Linux on System z Trade Up from CICS Universal Client for Linux on System z License + SW Subscription + Support 12 Months
D0I35LL	CICS TG Desktop Edition System z Authorized User Trade Up from CICS Universal Client 10 Processor Value Unit License + Subscription + Support 12 Months Trade Up Lic + SW Subscription + Support 12 Months

Consult your IBM representative if you have any questions.

Charge metric

Program name	PID number	Charge metric/unit
CICS TG for z/OS V9.1	5655-Y20	Value Units
CICS TG for z/OS Subscription and Support	5655-M70	Value Units
CICS TG V9.1	5724-I81	Processor Day
CICS TG V9.1	5724-I81	Processor Value Unit (PVU)
CICS TG V9.1	5724-I81	PVU for zBX and Linux on System z
CICS TG V9.1	5724-I81	PVU System z
CICS TG Desktop Edition V9.1	5725-B65	Authorized User
CICS TG Desktop Edition V9.1	5725-B65	Authorized User for zBX and Linux on System z
CICS TG Desktop Edition V9.1	5725-B65	Authorized User for System z
CICS Modernization Solution Pack for z/OS V5.2	5655-CD3	Per Value Unit

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the web page below). If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores² in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_sp_ecific_virtualization_technologies.html

- 2** An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes

- Some programs may require licenses for the program **and** what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

Basic license

For CICS TG for z/OS, V9.1

On/Off Capacity on Demand (On/Off CoD)

CICS TG for z/OS V9.1 and CICS Modernization Solution Pack for z/OS V5.2 are eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program Name CICS Transaction Gateway for z/OS V9.1
Program PID 5655-Y20

Entitlement Identifier	Description	License Option/Pricing Metric
S0172DK	CICS TG for z/OS V9.1	Basic OTC, Per MSU-day TUC

Program Name CICS Modernization Solution Pack for z/OS V5.2
Program PID 5655-CD3

S017CZR	CICS Modernization Solution Pack for z/OS V5.2	Basic OTC, Per MSU-day TUC
---------	------------------------------------------------	----------------------------

Program name: CICS TG for z/OS V9.1
Program number: 5655-Y20

The following information is a summary of all license options and pricing metrics offered for the above PID number.

Entitlement Identifier	Description	License Option/Pricing Metric
S0172DK	CICS TG for z/OS V9.1	Basic OTC, Value units

Orderable Supply ID	Language	Distribution medium
S0172DJ	US English	3590 tape cartridge uncomp

Note: additional media type selections (3590 and 3592) are offered during Custom Build Offering ordering.

Program name: CICS Modernization Solution Pack for z/OS V5.2
Program number: 5655-CD3

The following information is a summary of all license options and pricing metrics offered for the above PID number.

Entitlement Identifier	Description	License Option/Pricing Metric
S017CZR	CICS Modernization Solution Pack for z/OS V5.2	Basic OTC, Per MSU-day TUC

Orderable Supply ID	Language	Distribution medium
S017CZN	US English	3590 tape cartridge uncomp

Note: additional media type selections (3590, 3592) are offered during Custom Build Offering ordering.

CICS TG for z/OS Subscription and Support PID 5655-M70

The following information is a summary of all license options and pricing metrics offered for the above PID number

Entitlement Identifier	Description	License Options/Pricing Metrics
S0118LP	CICS TG for z/OS - Subscription and Support	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution medium
S0117GL	US English	Hardcopy publication

CICS Modernization Solution Pack for z/OS
- Subscription and Support PID 5655-CD4

Entitlement Identifier	Description	License Options/Pricing Metrics
S017CZT	CICS Modernization Solution Pack for z/OS - Subscription and Support	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution Medium
S017CZS	US English	Hardcopy publication

Program name: CICS Modernization Solution Pack for z/OS, V5.2
Program PID: 5655-CD3

Entitlement identifier	Description	License option/Pricing metric
S017CZR	CICS Modernization Solution Pack for z/OS, V5.2	Basic OTC, Value Units
S017CZR	CICS Modernization Solution Pack for z/OS, V5.2 Trade up from 5655-Y29 (CICS DA) Trade up from 5655-Y22 (CICS IA) Trade up from 5655-Y20 (CICS TG for z/OS)	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S017CZN	English	3590 tape

Note: additional media type selections are offered during Custom Build Offering ordering.

Subscription and Support: CICS TG for z/OS and CICS Modernization Solution Pack for z/OS

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390® and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

Processor Value Unit (PVU) sub-capacity licensing

This software product is eligible for sub-capacity licensing. Customers must accept the terms of the IBM International Passport Advantage Agreement Attachment for Sub-Capacity Licensing Terms (Attachment), and must obtain PVU Proofs of Entitlement (PoEs) for the maximum processor core capacity available to an eligible sub-capacity product when deployed in an eligible virtualization environment. This is also referred to as sub-capacity or virtualization capacity licensing.

Customers must use the IBM License Metric Tool unless they meet the exceptions described in the Attachment.

For information regarding PVU sub-capacity licensing, including terms and IBM License Metric Tool ordering information, visit

<http://www.ibm.com/software/lotus/passportadvantage/subcaplicensing.html>

The program in this announcement has Value Unit-based pricing.

Program number	Program name	value unit exhibit
5655-Y20	CICS Transaction Gateway z/OS v9.1	VUE007
5655-CD3	CICS Modernization Solution Pack for z/OS v5.2	VUE007

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected System z IPLA product, the applicable Value Units would be:

Translation from MSUs to value Units

	MSUs	*	Value Units/MSU	=	value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Customized Offerings

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

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

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO and ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the product ServerPac, visit the Help section on the Shopz website at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

For additional information on the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 31, 2012.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.

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.

Terms and conditions for distributed products

Applicable to CICS TG for Multiplatforms V9.1, and CICS TG Desktop Edition V9.1

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

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

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures.

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.

License Information form numbers

CICS TG for Multiplatforms V9.1: L-SBRY-9J9HFZ

CICS TG Desktop Edition V9.1: L-SBRY-9J9HK3

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

<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.

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 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, 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 Passport Advantage website at

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

Usage restriction

Yes.

For all platforms, licensee is only licensed to use a single copy of the program, through one individual user. Specifically, licensee is not licensed to use the Program either on a server, or in a multi-user environment, and the program is not licensed for installation on any application server. In order to be licensed for any multi-user access to CICS, licensee must first ensure that it has acquired a licensed copy of CICS TG for Multiplatforms for each relevant system or environment.

Additional licensing information

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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

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* 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>

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

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, every day of the year.

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 this agreement.

For more information about the Passport Advantage Agreement, visit the Passport Advantage website at

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

Variable charges apply

No

Educational allowance available

Not applicable.

Terms and conditions for host products

Applicable to CICS TG for z/OS, V9.1 and CICS Modernization Solution Pack for z/OS, V5.2

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.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for subscription and support and does not require customer signatures.

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. 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.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

CICS TG for z/OS, V9.1: L-SBRY-9J9HBM

CICS Modernization Solution Pack for z/OS, V5.2: L-ACRR-9FDMHN

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

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

Trade-in terms for CICS Tools Solution Packs

IBM may offer trade-in terms for customers who have separately licensed one or more of the individual products that are included in a solution pack and who wish

to trade in the licenses to one or more such individual products when licensing a solution pack. If IBM offers such trade-in terms, then as part of any such trade in, all entitlements to the products being traded in will be terminated. In some cases, the entitlements to the solution packs being licensed by the customer as part of the trade-in arrangement may not be equal to the entitlements being terminated. For example, if the customer holds entitlement to 100 Value Units of product A which has been included in a solution pack, and is trading in its license to product A in return for 90 Value Units of the solution pack, then, in keeping with the specific trade-in terms, the customer agrees to terminate all its entitlements to product A (100 VUs).

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* 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 will be available for a minimum of five years from the general availability date, as long as your Subscription and Support 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. Subscription and Support also provides you with access to updates, 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 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

No

Usage restriction

Yes. For further information, refer to the License Information document that is available on the IBM Software License Agreement website

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

Software Subscription and Support (Software Maintenance) applies

No

For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/si/products>

IBM Operational Support Services - SoftwareXcel

Yes

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

Sub-capacity terms and conditions

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The System z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms	Parent, if applicable
5655-Y20	CICS TG for z/OS, v9.1	Reference-based	5655-M15 5655-S97 5655-Y04

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution-based, z/OS-based, full-machine-based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of a System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS on the machines where the System z IPLA program executes.

Reference-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full-machine-based: The required license capacity of a System z IPLA program with full-machine-based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to *The IBM System z Machines Exhibit*, Z125-3901, or visit the Mainframes section of the System z Exhibits website.

<http://ibm.com/zseries/library/swpriceinfo/>

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex®. You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

Sub-capacity eligibility

To be eligible for sub-capacity charging on select System z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS operating systems.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing website

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for IBM System z9® and System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of a sub-capacity eligible reference product and machine.

On/Off Capacity on Demand (CoD)

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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 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.

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support, all at no additional cost to you.

Now integrated into the base operating system of AIX V5.3, AIX V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits via either the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide you a single point of exit from your site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into your system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by you and IBM. Your business applications or business data is never transmitted to IBM.

More accurate reporting: Because system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, you are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, you can view system and support information in the My Systems and Premium Search sections of the Electronic Support website at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with your IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, you are able to see search results that apply specifically to your systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

Prices

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

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

For information on prices, visit

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

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Program name: CICS TG for z/OS V9.1
Program PID: 5655-Y20

Entitlement identifier	Description	License option/Pricing metric
S0172DK	CICS TG for z/OS V9.1	Basic OTC, Per MSU-day TUC
S0172DK	CICS TG for z/OS V9.1	Basic OTC, Value units

Subscription and Support PID: 5655-M70

S0118LP	CICS TG for z/OS Subscription and Support	Basic ASC, Value Units SW S&S Decline SW S&S (no charge) Per MSU SW S&S Registration
---------	-------------------------------------------------	--------------------------------------------------------------------------------------------

Program name: CICS Modernization Solution Pack for z/OS V5.2
Program PID: 5655-CD3

S017CZR	CICS Modernization Solution Pack for z/OS V5.2	Basic OTC, Per MSU-day TUC
S017CZR	CICS Modernization Solution Pack for z/OS V5.2	Basic OTC, Value units

S017CZR CICS Modernization Basic OTC, Value Units
Solution Pack for
z/OS, v5.2
Trade up from 5655-Y29
(CICS DA)
Trade up from 5655-Y22
(CICS IA)
Trade up from 5655-Y20
(CICS TG for z/OS)

Subscription and Support PID: 5655-CD4

S017CZT CICS Modernization Basic MSC, Value Units SW S&S
Solution Pack for z/OS Decline SW S&S (no charge)
- Subscription Per MSU SW S&S Registration
and Support

Order now

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)
For IBM representative: callserv@ca.ibm.com
For IBM Business Partner: pwcs@us.ibm.com
Mail: IBM Teleweb Customer Support
 ibm.com® Sales Execution Center, Americas North
 3500 Steeles Ave. East, Tower 3/4
 Markham, Ontario
 Canada
 L3R 2Z1

Reference: YE001

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.

Trademarks

TXSeries, Redpapers, i5/OS and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, CICS, z/OS, WebSphere, Rational, AIX, IA, RACF, POWER, CICS Explorer, System z, Worklight, PureApplication, CICSplex, PartnerWorld, Redbooks, System p, Passport Advantage, zEnterprise, BladeCenter, S/390, Express, System i, Parallel Sysplex, OS/390, z/Architecture, System z9 and ibm.com are registered trademarks of IBM Corporation in the United States, other countries, or both.

Oracle and Java are trademarks of Oracle and/or its affiliates in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Intel, Itanium and Pentium are trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

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

Adobe is a trademark of Adobe Systems Incorporated in the United States, and/or other countries.

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

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at:

<http://www.ibm.com/legal/us/en/>

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on June 23, 2015)

The Hardware requirements section is revised.

(Corrected on September 22, 2014)

The Product information section is revised.

(Corrected on September 19, 2014)

The Product information section is revised.