



# IBM CICS Transaction Gateway V9.2 enables continuous integration testing for JSON web services and all remote CICS Transaction Gateway applications

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## At a glance

CICS<sup>(R)</sup> Transaction Gateway (CICS TG) V9.2 delivers the following enhancements:

- Ability to test all remote mode CICS TG applications and JSON web services through connections to a virtual CICS server. This allows for early capture of application regressions, which includes integration with IBM<sup>(R)</sup> Rational<sup>(R)</sup> Test Workbench.
- Performance improvements to deliver the rapid simultaneous establishment of large, secure connection pools.
- Exploitation of the IBM SDK for z/OS<sup>(R)</sup>; Java<sup>TM</sup> Technology Edition, Version 8; the IBM Runtime Environment; Java Technology Edition, Version 8 on AIX<sup>(R)</sup>, Linux<sup>TM</sup>, Microsoft<sup>TM</sup> Windows<sup>TM</sup>; and HP-UX
- Added support for z/OS V2.2, Microsoft Windows 10, and Ubuntu Linux 14.04 LTS operating system releases

For ordering, contact your IBM representative or an IBM Business Partner. For more information, contact the Americas Call Centers at: 800-IBM-CALL (426-2255). Reference: YE001

## Overview

IBM CICS Transaction Gateway (CICS TG) V9.2 enables simple and rapid mobile integration of an enterprise's CICS Transaction Server (CICS TS) family or TXSeries<sup>(R)</sup> environment. A client's existing, proven, architecture can be built on quickly to provide mobile connectivity to back-end systems by using JavaScript<sup>TM</sup> Object Notation (JSON) web services. CICS TG V9.2 enables continuous integration testing for JSON web services and all remote CICS TG applications. The new CICS Intercept plug-in allows for selective connections to live CICS servers, or virtualized responses, when deploying a Gateway daemon to a client's platform of choice.

Mobile enablement with CICS TG V9.2 uses data transformations technology to deliver JSON web services that are common to IBM z/OS Connect V1, z/OS Connect Enterprise Edition V2, and CICS TS V5, 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 V9.2 includes:

- Enhancements to CICS TG request monitoring to augment full access to channel and container payload data for monitoring tools. This includes container metadata.
- Fundamental improvements to the Gateway thread model. This provides an improvement to response times, especially for remote client applications, by using secure connections where many hundreds of remote client applications typically connect simultaneously.
- Support for the 64-bit version of the IBM SDK for z/OS, Java Technology Edition, V8, which benefits from enhancements that exploit IBM zEnterprise<sup>(R)</sup> EC12 (zEC12) and IBM zEnterprise BC12 (zBC12) instructions, and also new capabilities that are made available with the z/OS V2.2 operating system.
- Support for 32-bit version of the IBM Runtime Environment; Java Technology Edition, Version 8 Release 0 on AIX; Linux, Microsoft Windows; , and HP-UX operating systems. This release of Java benefits from fundamental improvements to the Java Virtual Machine (JVM) and Just In Time (JIT) compiler, and exploits the capabilities of new POWER<sup>(R)</sup> 8 hardware with AIX and Linux operating systems.
- Support for Microsoft Windows 10.

### **CICS TG SDK**

The Software Development Kit (SDK) for CICS TG contains all of the CICS TG JARs, RARs, shared libraries, headers, libs, and schemas required to write, compile, and ship a CICS TG application for any edition of CICS TG V9.2. To ensure that the latest release of the SDK is always readily available, it is only available on-line at the [IBM developerWorks<sup>\(R\)</sup> CICSdev](#) page.

### **CICS Explorer<sup>(R)</sup>**

The CICS TG plug-in for CICS Explorer is updated to support CICS Explorer V5.3 and IBM Explorer for z/OS (z/OS Explorer) V3.0 Aqua.

### **z/OS Connect Enterprise Edition open beta**

The z/OS Connect Enterprise Edition open beta offering is available as an unsupported offering from IBM to enable clients to evaluate its features at no charge, for a limited period. For more information, visit the [z/OS Connect Enterprise Edition open beta](#) web page.

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## **Key prerequisites**

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CICS TG V9.2 has the following key prerequisites:

- z/OS V1.13; z/OS V2.1, or later
- IBM AIX V7.1, or later
- Linux on z Systems<sup>TM</sup>: Red Hat Enterprise Linux (RHEL) 6 or 7<sup>1</sup> and SUSE Linux Enterprise Server (SLES) 11 or 12 (with 64-bit kernel)
- Linux on POWER: RHEL 6 or 7<sup>1</sup> and SLES 11 (Big Endian only, with 64-bit kernel)
- Linux on Intel<sup>TM</sup>: RHEL 6 or 7<sup>1</sup>; SLES 11 or 12<sup>2</sup>; and Ubuntu 14.04 LTS<sup>3</sup> (with 64-bit kernel, which includes Desktop versions with 32-bit or 64-bit kernel)
- Linux on Intel: RHEL 6 or 7 compatible environments<sup>4</sup>
- Microsoft Windows 7; Microsoft Windows 8.1 Business, Professional, Enterprise, and Ultimate Editions; Microsoft Windows 10 Pro and Enterprise 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 or V11 (with 32-bit or 64-bit kernel)
- HP-UX11i V3 (with 64-bit kernel) on Itanium™
- IBM 64-bit SDK for z/OS and Java Technology Edition V7.1.0
- IBM 64-bit SDK for z/OS and Java Technology Edition V8.0.0
- IBM 32-bit Runtime Environment and Java Technology Edition, Version 8 Release 0 (on AIX, Linux, Microsoft Windows, and HP-UX)
- IBM 32-bit Runtime Environment and Java Technology Edition, V7 Release 0 (on Oracle Solaris)

<sup>1</sup> RHEL 6.7, or later, and RHEL 7.1, or later.

<sup>2</sup> SUSE Linux Enterprise Server 11 SP4, or later, and SUSE Linux Enterprise Server 12 SP1, or later.

<sup>3</sup> Ubuntu 14.04.3, or later.

<sup>4</sup> RHEL-compatible environments must be compatible with binary and source that is supported by the RHEL releases listed previously.

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

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## Planned availability date

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- March 11, 2016 (electronic distribution)
  - CICS TG for Multiplatforms V9.2
  - CICS TG Desktop Edition V9.2
- March 18, 2016 (general availability)
  - CICS TG for Multiplatforms V9.2 (media pack)
  - CICS TG Desktop Edition V9.2 (media pack)
  - CICS TG for z/OS, V9.2

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## Description

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CICS TG V9.2 enables continuous integration testing for JSON web services and all types of remote CICS TG applications.

CICS TG, the premier IBM enterprise connector suite, is production proven for over 1000 clients as a high-performing, security-rich, and scalable method of service-oriented architecture (SOA) access to CICS family and TXSeries products. CICS TG 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, which includes JSON web services, 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<sup>(R)</sup> Application Server.
- Allows CICS applications to be integrated with cloud-based infrastructure, through products such as IBM PureApplication<sup>(R)</sup> 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, and also allow a wide range of application platforms to integrate with CICS. This includes JSON web services, 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 and 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, V9.2 delivers enhancements in the following areas:

- The new CICS Intercept plug-in allows selective pass through to live CICS servers, or virtualized responses, when deploying a Gateway daemon to a client's platform of choice. This offering also enables continuous integration testing for JSON web services and all remote CICS TG applications.
- By enabling virtualized responses, it is possible to build a continuous integration test suite using the support for CICS TG included in Rational Test Workbench, or a bespoke CICS Intercept plug-in. This allows application developers to fail fast earlier in the development and test cycle, and before promoting new code to higher level quality assurance systems.

## Foundation

CICS TG V9.2 delivers significant improvements in response time, from the perspective of a remote client application that establishes a secure (TLS) connection, when many such remote clients simultaneously establish secure connections, or a large connection pool is established. This can be of assistance in start-of-business scenarios, or when entire connection pools are cycled for a planned or unplanned outage.

CICS TG V9.2 provides support for Microsoft Windows 10, both as a supported operating system for the Multiplatforms and Desktop Edition products, and as a platform for application deployment. For Microsoft Windows application developers, support for Microsoft Visual Studio 2015 compilers is also included.

Request monitoring is enhanced to provide access to character encoding information (CCSID) for channels and individual containers of type "CHAR". Access to this request meta-data enables meaningful interpretation of request-level monitoring data, especially when application requests exploit a range of character encodings.

CICS TG for z/OS, V9.2 requires z/OS V1.13 (5694-A01) with APAR OA38409 or z/OS V2.1, or later, and works with the 64-bit version of the IBM SDK for z/OS, Java Technology Edition, Version 8 Release 0. CICS TG for z/OS, V9.2, automatically benefits from this level of the IBM SDK for z/OS, which offers:

- A comprehensive Java SDK at the SE 8 level for the z/OS platform.
- Enhancements to z/OS Java unique security and JZOS functionality.
- Exploitation of new capabilities available with z/OS V2.1 and V2.2. For more information on z/OS V2.2, refer to Software Announcement [215-006](#), dated January 14, 2015.
- Exploitation of new capabilities delivered by IBM z13™. For more information on IBM z13, refer to Hardware Announcement [115-001](#), dated January 14, 2015.

- Exploitation of capabilities that are delivered by zEC12 and zBC12.
- Improved performance using the Data Access Accelerator API for processing native data records and types directly from Java code.
- Enhanced monitoring and diagnostics.
- JZOS and z/OS unique security enhancements of previous z/OS Java SDK products.

CICS TG for Multiplatforms, V9.2, and CICS TG Desktop Edition, V9.2, include the IBM Runtime Environment, Java Technology Edition, Version 8 Release 0 for AIX, Linux, Microsoft Windows, and HP-UX operating systems. This release of Java 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. For details, go to the [IBM SDK, Java Technology Edition, Version 8](#) web page.

### **CICS TG SDK**

The SDK for CICS TG contains all of the CICS TG JARs, RARs, shared libraries, headers, libs, and schemas required to write, compile, and ship a CICS TG application for any edition of CICS TG V9.2. To ensure that the latest release of the SDK is always readily available, it is only available online at the [IBM developerWorks CICSdev](#) page.

### **CICS Explorer**

CICS Explorer, the strategic management interface for CICS TS, is upgraded to CICS Explorer V5.3. 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 V5.3 and IBM Explorer for z/OS, V3.0 Aqua.

CICS Explorer V5.3, is updated to add support for the new and enhanced capabilities of CICS TS V5.3. This release of CICS Explorer makes it easier to see the CICS data that is required by providing enhanced customization options for table views, which can then be saved for future use.

A CICS TG plug-in for CICS Explorer is available separately at no extra charge. Go to the [CICS Explorer](#) home page.

### **z/OS Connect Enterprise Edition open beta**

The z/OS Connect Enterprise Edition (EE) open beta offering is available as an unsupported offering from IBM to enable clients to evaluate its features at no charge, for a limited period.

z/OS Connect EE extends the value of applications that run on z/OS by allowing efficient and scalable APIs for contemporary mobile and cloud applications to be easily created. For more information, visit the [z/OS Connect Enterprise Edition open beta](#) web page.

### **Accessibility by people with disabilities**

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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 IBM Knowledge Center. To request the accessibility status for IBM Knowledge Center, visit the [IBM Product accessibility information](#) web page.

Select IBM Knowledge Center - Hosted Edition. Within IBM Knowledge Center, the CICS documentation is designed to be accessible: for example, instead of viewing diagrams, users can choose to read text descriptions.

Some product documentation is provided in PDF format for download from the IBM Publications Center, and users can create PDFs from topics in 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 also be requested at the [IBM Product accessibility information](#) web page.

## **Section 508 of the US Rehabilitation Act**

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CICS TG V9.2 is capable, at general availability, 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**

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Value Unit pricing for eligible IBM z Systems™ IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each z Systems 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 z Systems 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 z Systems IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a z Systems IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each z Systems 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, go to the [IBM z Systems Software Pricing](#) website.

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 z Systems IPLA program you selected, refer to the [Terms and conditions](#) section.

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## Product positioning

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CICS TG provides a flexible, scalable, CICS connectivity solution for mobile applications, enterprise applications deployed to JEE application servers, such as WebSphere<sup>®</sup> Application Server, and distributed platform applications written in Java, C/C++, and COBOL programming languages, or Microsoft.NET Framework-based applications.

CICS TG V9.2 builds on the mobile applications support delivered in CICS TG V9.1, through JSON web services, by enabling the continuous integration testing and virtualization of mobile CICS workloads.

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

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## Statement of general direction

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IBM makes the following statements of general direction:

- IBM will, in a future release of IBM CICS Transaction Gateway, withdraw support for Oracle Solaris and HP-UX operating systems.
- IBM withdraws the statement of direction it made in Software Announcement [214-263](#), dated July 1, 2014, that is related to IBM WebSphere Liberty z/OS Connect as a common component of IBM CICS Transaction Gateway.

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 remain at our sole discretion.

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## Reference information

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For information on CICS TG, V9.1, refer to Software Announcement [214-263](#), dated July 1, 2014.

For information on CICS TS, V5.3, CICS TS Value Unit Edition V5.3, and CICS TS Developer Trial V5.3, refer to Software Announcement [215-363](#), dated October 5, 2015.

For information on the portfolio of CICS Tools products, V5.3, and CICS Explorer V5.3, refer to Software Announcement [215-364](#), dated October 5, 2015.

For information on TXSeries, V8.2, refer to Software Announcement [215-047](#), dated February 17, 2015.

For further information on TXSeries, V8.2, refer to Software Announcement [215-325](#), dated September 8, 2015.



For information on z/OS Explorer, V3.0, refer to Software Announcement [215-373](#), dated October 5, 2015.

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## Program number

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Program number (PID)	VRM	Program name
5655-Y20	9.2.0	CICS TG for z/OS
5724-I81	9.2.0	CICS TG for Multiplatforms
5725-B65	9.2.0	CICS TG Desktop Edition

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## Product identification number

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CICS TG for z/OS, V9.2

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

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## Offering Information

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Product information is available on the [IBM Offering Information](#) website.

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## Business Partner information

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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<sup>(R)</sup> ID and password are required (use IBM ID).

[BP Attachment for Announcement Letter 216-035](#)

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## Publications

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CICS TG V9.2 product documentation is provided in the following ways:

- Online, in IBM Knowledge Center
- Off-line, in the versions of IBM Knowledge Center that are for use on a local system
- As PDF manuals, which can be downloaded from the IBM Publications Center

### Online information in IBM Knowledge Center

Online documentation for CICS TG V9.2 is hosted in IBM Knowledge Center, which provides integrated tools for finding, filtering, customizing, saving, and sharing information. Documentation for CICS TG V9.2 in IBM Knowledge Center is refreshed regularly to reflect feedback from users, and to include changes that result from IBM service.

For the CICS TG V9.2 product documentation, refer to

- [CICS TG for z/OS in IBM Knowledge Center](#)
- [CICS TG for Multiplatforms and CICS TG Desktop Edition in IBM Knowledge Center](#)

### Offline information, by using IBM Knowledge Center for CICS products



IBM Knowledge Center for CICS family products is a framework that can be downloaded to a local system. The framework can then be loaded with the documentation for CICS TG. Frameworks are available for Microsoft Windows, AIX, Linux, and under IBM WebSphere Application Server Liberty Profile for Microsoft Windows, AIX, Linux, and zLinux. These frameworks are provided on a single DVD that is available from IBM Shopz (GC34-7459). The documentation for CICS TG that can be loaded into the framework is available at [IBM Knowledge Center CICS FTP server](#) web page.

Clients who do not have access to IBM Shopz should make use of the PDF manuals provided for CICS TG V9.2, from the IBM Publications Center.

### PDF manuals

Documentation for CICS TG V9.2 is provided for download in PDF format from IBM Publications Center. Clients can download individual manuals<sup>1</sup> or a complete set, known as a Product Kit (PKIT). For CICS TG V9.2, (SK4T-2713)

<sup>1</sup> These manuals are not refreshed between releases of CICS TG.

Title	Form number
CICS TG for z/OS V9.2 Administration	SC34-7331
CICS TG for z/OS V9.2 Developing Applications	SC34-7332
CICS TG for Multiplatforms V9.2 Administration	SC34-7338
CICS TG for Multiplatforms V9.2 Developing Applications	SC34-7339
CICS TG for Multiplatforms V9.2 Programming Reference	SC34-7340
CICS TG V9.2 Messages	SC34-7341

### Other publications

In addition to the product documentation, the following publications are available for download from the IBM Publications Center:

Title	Order number
Program Directory	GI13-3372
Data sheet	GI13-3374

### National language versions

Some documentation is translated into languages other than English. For more information, refer to the [IBM Publications Center](#) web page.

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## Services

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### Software Services

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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, go to the [IBM Software Services](#) website.

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

CICS TG V9.2 runs on any of the following hardware, which is supported by an operating system that is listed in [Software requirements](#) section.

- z/OS: IBM z Systems
- 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; and IBM z Systems 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, refer to

- [CICS TG for z/OS in IBM Knowledge Center](#)
- [CICS TG for Multiplatforms and CICS TG Desktop Edition in IBM Knowledge Center](#)

#### **Software requirements**

The following is a summary of supported operating systems and environments for CICS TG V9.2:

- z/OS V1.13; z/OS V2.1, or later
- IBM AIX V7.1, or later
- Linux on z Systems: Red Hat Enterprise Linux (RHEL) 6 or 7<sup>1</sup> and SUSE Linux Enterprise Server (SLES) 11 or 12 (with 64-bit kernel)
- Linux on POWER: RHEL 6 or 7<sup>1</sup> and SLES 11 (Big Endian only, with 64-bit kernel)
- Linux on Intel: RHEL 6 or 7<sup>1</sup>; SLES 11 or 12<sup>2</sup>; and Ubuntu 14.04 LTS<sup>3</sup> (with 64-bit kernel, which includes Desktop versions with 32-bit or 64-bit kernel)
- Linux on Intel: RHEL 6 or 7 compatible environments<sup>4</sup>
- Microsoft Windows 7; Microsoft Windows 8.1 Business, Professional, Enterprise, and Ultimate Editions; and Microsoft Windows 10 Pro and Enterprise 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 or V11 (with 32-bit or 64-bit kernel)
- HP-UX11i V3 (with 64-bit kernel) on Itanium
- IBM 64-bit SDK for z/OS, Java Technology Edition V7.1.0
- IBM 64-bit SDK for z/OS, Java Technology Edition V8.0.0
- IBM 32-bit Runtime Environment, Java Technology Edition, Version 8 Release 0 (on AIX, Linux, Microsoft Windows, and HP-UX)
- IBM 32-bit Runtime Environment, Java Technology Edition, V7 Release 0 (on Oracle Solaris)

<sup>1</sup> RHEL 6.7, or later, and RHEL 7.1, or later.

<sup>2</sup> SUSE Linux Enterprise Server 11 SP4, or later, and SUSE Linux Enterprise Server 12 SP1, or later.

<sup>3</sup> Ubuntu 14.04.3, or later.

<sup>4</sup> RHEL-compatible environments must be compatible with binary and source that is supported by the RHEL versions listed previously.

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 V4.1, or later, including CICS TS Developer Trial
- CICS TS Value Unit Edition V5.1, or later
- CICS Transaction Server for z/VSE<sup>(R)</sup> V2.1
- CICS Transaction Server for VSE/ESA V1.1.1
- CICS Transaction Server for i V7.1, or later
- TXSeries for Multiplatforms V7.1, or later

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](#) in the [Terms and conditions](#) section of this announcement, or to the license information document that is available on the [IBM Software License Agreement](#) web page.

### **Stabilization of support**

*Oracle Solaris and HP-UX:* Support for Oracle Solaris and HP-UX operating systems in CICS TG is stabilized. Remote mode Java client applications that use the CICS TG Java base classes (in ctgclient.jar) will continue to be supported in Java SE-certified runtime environments, including Oracle Solaris and HP-UX. Also, remote mode JCA client applications that use the CICS resource adapters (in cicseci.rar and cicsepi.rar) will continue to be supported in Java EE-certified runtime environments, including Oracle Solaris and HP-UX.

### **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. Read about the Electronic Support portfolio of tools on the [IBM Electronic Support](#) website.

You can also access the [IBM Support Portal](#) page and the online [Service requests and PMRs](#) tool for more support.

### **User Group requirements**

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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. In RFE, requirements can be created, viewed, and voted for.

RFE number	Description
61323	CTG for z/OS: file mode setting (custom permissions for z/OS UNIX™ file system output)
63221	Expose codepage and CCSID for channels and containers within ChannelInfo and ContainerInfo

## Planning information

### Packaging

#### For CICS TG for z/OS, V9.2, only

CICS TG for z/OS, V9.2, is shipped using CBPDO or other customized offerings on 3590 tape.

The following DVDs are shipped with CICS TG for z/OS, V9.2:

- IBM Knowledge Center for IBM CICS products Framework V1.5 DVD (local install for Microsoft Windows, AIX, and Linux) (GC34-7459)
- IBM Knowledge Center for IBM CICS products V1.5 License Information DVD (GC34-7460)

#### For CICS TG for z/OS, Multiplatforms, and Desktop Edition, V9.2

License Information DVD (GC34-7330) is shipped with CICS TG, V9.2.

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 V9.2 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<sup>(R)</sup>.

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

## Ordering information

This product is only available through 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

### CICS Transaction Gateway (CICS TG) for Multiplatforms

Part description	Part number
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
Passport Advantage supply	Part number
CICS TG for Multiplatforms Version 9.2 Multilingual Media Pack	BA1A9ML

### CICS TG Desktop Edition

Part description	Part number
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 Desktop Edition Version 9.2 Multilingual Media Pack	BA1A8ML

Passport Advantage customer: Media pack entitlement details

## Cross-platform product for use on or with z Systems

Order the part numbers that follow when the product is running on or connected to a z Systems 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 z Systems PVU Annual SW Maintenance Renewal	E021CLL
CICS TG for zEnterprise BladeCenter Extension and Linux on z Systems PVU License + SW Maintenance 12 Months	D55L1LL
CICS TG for zEnterprise BladeCenter Extension and Linux on z Systems PVU SW Maintenance Reinstatement 12 Months	D55L2LL
CICS TG Desktop Edition Authorized User for zEnterprise BladeCenter Extension and Linux on z Systems License + SW Subscription + Support 12 Months	D0G8LLL
CICS TG Desktop Edition Authorized User for zEnterprise BladeCenter Extension	E0AIFLL

Program name/Description	Part number
and Linux on z Systems Annual SW Subscription + Support Renewal	
CICS TG Desktop Edition Authorized User for zEnterprise BladeCenter Extension and Linux on z Systems 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, V9.2 is eligible for On/Off CoD with a temporary use charge, calculated based on MSUs per-day usage.

Part description	Part number
CICS TG Processor Day OoCoD Temporary Use Charge	ASQ68LL

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

Program number	Program name	Value Unit Exhibit
5655-Y20	CICS TG for z/OS V9.2	VUE007

For each z Systems 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 z Systems 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	+	0.20

### 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 z Systems IPLA product, the applicable Value Units would be:

Tier	MSUs	Multiplied by Value Units per MSU	Equal 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

Tier	MSUs	Multiplied by Value Units per MSU	Equal Value Units
Total	1,500		343.50

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

## 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). IBM Shopz is available in the US and several countries in Europe. In countries where Shopz is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order using the traditional IBM ordering process. For more details and availability, visit the [IBM Shopz](#) website.

### Passport Advantage

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

Details of media packs for CICS TG V9.2 are available in the [Ordering information](#) section.

### Charge metric

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

### Authorized User

Authorized User 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. The program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User given access to the program in any manner directly or indirectly (for example, through a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

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



## 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 (socket). A dual-core processor chip, for example, has two processor cores. The PVU table can be found > on the [PVU licensing for Distributed Software](#) page. Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage<sup>(R)</sup> Sub-Capacity Licensing Terms found on the [Virtualization Capacity License Counting Rules](#) page. If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores\* 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 that can be found on the [Virtualization Capacity License Counting Rules](#) page.

\* 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

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For CICS TG for z/OS, V9.2

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

CICS TG for z/OS V9.2 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name: CICS TG for z/OS V9.2

Program PID: 5655-Y20

Entitlement identifier	Description	License option/Pricing metric
S0172DK	CICS TG for z/OS V9.2	Basic OTC, per MSU-day TUC

Ordering information for Value Unit pricing

Program name: CICS TG for z/OS V9.2

Program PID: 5655-Y20

Entitlement identifier	Description	License option/Pricing metric
S0172DK	CICS TG for z/OS V9.2	Basic OTC, per Value Unit

Program name: CICS TG for z/OS V9.2

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 V9.2	Basic OTC, Value units
Orderable supply ID	Language	Distribution medium
S0172DJ	U.S. 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 option/Pricing metric
S0118LP	CICS TG for z/OS - Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
Orderable supply ID	Language	Distribution medium
S0117GL	U.S. English	Hardcopy publication

### Subscription and Support: CICS TG 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<sup>(R)</sup> and z Systems 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**

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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, go to the [Passport Advantage Virtualization Capacity \(Sub-capacity\) Licensing](#) website.

### **Customized Offerings**

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Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where Shopz 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, go to the Help section on the [Shopz](#) website.

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 through 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, go to the Help section on the [Shopz](#) website.

For additional information about 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.

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## **Terms and conditions**

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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**

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**For CICS TG for Multiplatforms V9.2, and CICS TG Desktop Edition V9.2, only**

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 on-going 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 numbers**

CICS TG for Multiplatforms, V9.2: L-SBRY-9PHG8M

CICS TG Desktop Edition, V9.2: L-SBRY-9PHGA2

See the [License Information documents](#) page on the IBM Software License Agreement website for more information.

***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 additional details, go to the [IBM Support Handbooks](#) page.

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 (by 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, through an 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)***

Yes. Contact your IBM representative.

### ***Passport Advantage applies***

Yes, and through the [Passport Advantage and Passport Advantage Express<sup>\(R\)</sup>](#) website.

### ***Usage restriction***

Yes

### ***For CICS TG Desktop Edition, V9.2, only***

Single user use only

For all platforms, Client is only licensed to use a single copy of CICS TG Desktop Edition, V9.2, through one individual user. Specifically, Client is not licensed to use CICS TG Desktop Edition, V9.2, in a multi-user environment. In order to be licensed for any multi-user access to CICS, Client must first ensure that they have acquired a licensed copy of CICS TG for Multiplatforms for each relevant system or environment.

See the [License Information documents](#) page on the IBM Software License Agreement website for more information.

### ***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 by 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, go to the [IBM Support Handbooks](#) page.

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, go to the [Passport Advantage and Passport Advantage Express](#) website.

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 by 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, go to the [IBM Support Handbooks](#) page.

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, go to the [Passport Advantage and Passport Advantage Express](#) website.

***Variable charges apply***

No

***Educational allowance available***

Not applicable.

***Terms and conditions for host products***

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***For CICS TG for z/OS, V9.2, only***

**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) 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 on-going 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 z Systems Operational Support Services - SoftwareXcel is an option if you desire added services.

### **License Information number**

L-SBRY-9PHGC8

The program's License Information will be available for review on the [License Information documents](#) page.

### ***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, go to the [IBM Support Handbooks](#) website. 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 (by 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, through an 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)***



Yes. Contact your IBM representative.

**Passport Advantage applies**

No

**Usage restriction**

Yes. For additional information, go to the [License Information documents](#) page on the IBM Software License Agreement website.

**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, go to the [Supported product list](#) website.

**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.

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For each z Systems 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 z Systems 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 z Systems 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 V9.2	Reference-based	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 z Systems IPLA program with these terms equals the MSU-rated capacity of the machines where the z Systems IPLA program executes.

For more information on mainframe MSU-rated capacities, visit the [IBM z Systems software pricing](#) website.

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

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

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

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

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

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

When a z Systems IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the z Systems 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 z Systems 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 z Systems (or equivalent). On that machine:

- All instances of the OS/390<sup>(R)</sup> 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<sup>(R)</sup> (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 [z Systems Software Pricing](#) website.

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 z Systems Workload License Charges(Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM z Systems 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<sup>(R)</sup> and z Systems Programs Sub-Capacity Pricing (Z125-6929)*. Once the amendment is signed, the terms in the amendment replace any and all previous z Systems IPLA sub-capacity terms and conditions.

### **Sub-capacity utilization determination**

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

### **On/Off CoD**

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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 z Systems On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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## **Statement of good security practices**

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S0172DK	CICS TG for z/OS V9.2	Basic OTC, per Value Unit

Subscription and Support PID: 5655-M70

Entitlement identifier	Description	License option/Pricing metric
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