



CICS Transaction Gateway V8.1 delivers increased business flexibility through high-availability enhancements and new connectivity from remote client environments

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At a glance

CICS® Transaction Gateway (CICS TG) V8.1 provides significant enhancements in areas including open platform integration, scalability, high availability, security and ease of use.

- Security enhancements to support improved password management, and password phrases with CICS TS V4.2
- Enhanced Microsoft™ .NET API, including support for CICS channels and containers, and interoperability with 32-bit or 64-bit compilers and runtime environments
- JCA 1.6 exploitation supporting JEE 6 certified applications servers, such as WebSphere® Application Server V8
- Improved support for high-availability solutions including Dynamic Server Selection, support for IBM® AIX® Workload Partitioning, and faster fail-over for IPIC connections
- Enhanced CICS TG plug-in for CICS Explorer™, adding user defined connection groups, connection import/export capability and column sorting
- Platform support extended to include AIX V7 and Red Hat Enterprise Linux™ (RHEL) V6, plus enhanced support for CICS TS V4.2
- A new message look-up utility

Overview

CICS Transaction Gateway (CICS TG) is the market-leading IBM connector for CICS. Production proven in over a thousand customer environments, with successful deployments across every major industry, CICS TG is the strategic flexible, high-performing, security-rich, and scalable method of service-oriented architecture (SOA) access to CICS servers. Running on IBM z/OS® and Microsoft Windows™, UNIX™, and Linux, CICS TG not only provides connectivity to CICS for JEE certified application servers, but also allows a wide range of application platforms to integrate with CICS including Java™ applications, servlets, and applets, Microsoft .NET framework applications, C, and COBOL applications.

Additionally, you can now view, operate, and test gateways and connections in the context of the CICS regions and applications they connect to using a supported plug-in for the CICS Explorer.

In addition to CICS TG for z/OS and CICS TG for Multiplatforms, described above, 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.

This latest version of CICS TG delivers further improvements to allow adopters of CICS TS for z/OS V4.2 to get the most out of their overall CICS-based solution. CICS TG V8.1 introduces enhanced high-availability support, password phrase support and enhanced client support for transaction tracking.

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

Key prerequisites

- IBM 32-bit Runtime Environment, Java 2 Technology Edition, V6
- IBM 31-bit SDK for z/OS, Java Technology Edition Version 6 Release 0 Modification 1 (z/OS)
- IBM z/OS V1.11, or later
- IBM AIX V5.3 (with 32-bit or 64-bit kernel), AIX V6.1 (with 64-bit kernel), or later
- Linux on System z®: Red Hat Enterprise Linux (RHEL) 5, RHEL 6, SLES 10, or SLES 11 (with 64-bit kernel)
- Linux on Intel™: RHEL 5, RHEL 6, SLES 10, or SLES 11 including Desktop versions (with 32-bit or 64-bit kernel)
- Oracle Solaris V10 (with 32-bit or 64-bit kernel)
- HP-UX11i V2 or V3 (with 64-bit kernel) on Itanium
- Microsoft Windows Vista, Windows 7 Business, Professional, Enterprise and Ultimate Editions (with 32-bit or 64-bit kernel)
- Microsoft Windows 2008 and Windows 2008 R2 Standard (including Small Business Server), Enterprise and Datacenter Editions (with 32-bit or 64-bit kernel)

For the latest details of key prerequisites for CICS TG V8.1, visit

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

Planned availability date

November 4, 2011 (electronic distribution)

- CICS TG for Multiplatforms V8.1
- CICS TG Desktop Edition V8.1

December 2, 2011 (general availability)

- CICS TG for Multiplatforms V8.1 (media pack)
- CICS TG Desktop Edition V8.1 (media pack)
- CICS TG for z/OS V8.1

Description

CICS TG, a market-leading, enterprise connector from IBM, is production proven for over a thousand customers as a high-performing, security-rich, and scalable method of service-oriented architecture (SOA) access to CICS, providing the following features:

- Delivers JEE standards-based access to CICS applications, 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, C, Microsoft .NET 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 Workload Deployer

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

Key enhancements

CICS TG V8.1 provides significant enhancements over previous releases in areas supporting key themes of Availability and Scalability, IT Simplification, and Open Platform Integration.

Availability and Scalability

While previously, high availability (HA) and scalability might have been the preserve of relatively few high-end enterprises, today even small business require demanding qualities of service to satisfy the web-based, 24x7 access from their client applications to back-end CICS business services. CICS TG V8.1 helps to satisfy this growing demand in a number of ways, including improved support for HA solutions, such as Dynamic Server Selection, support for AIX Workload Partitioning, and improved fail-over for IPIC connections

Customers using CICS TG for z/OS can now benefit from policy-based configurable Dynamic Server Selection, providing out-of-the-box high availability support for ECI and ESI workloads, and simplified mechanism for creating CICS high-availability topologies.

Dynamic Server Selection can also assist customers to deploy more scalable solutions, by spreading the incoming workload across a range of target CICS regions.

High availability of the connection from the CICS TG to CICS is improved through the support of the CICS Request Exit with CICS TG for Multiplatforms, and CICS TG Desktop Edition. CICS SupportPac CA1T provides a working sample CICS Request exit for deployment into the Gateway daemon, enabling remote Java, Microsoft .NET and ECI Version 2 clients to exploit a CICS high availability infrastructure.

In the event that connections to CICS servers fail, it is important that the CICS TG is able to detect and respond to such failures quickly. A new customizable server retry interval for IPIC connections shortens time-to-failure, allowing faster fail-over to an

alternate CICS server when used with Dynamic Server Selection in a high-availability configuration.

CICS TG V8.1 supports the use of AIX virtualization through Workload Partitioning (WPAR), both for client applications and for CICS TG daemon processes. CICS TG supports using application WPARs for client applications in remote mode or, where the IPIC protocol is used, in local mode.

Client applications running in application WPARs have their own isolated environment, complete with their own network stack, so any problem will not affect the rest of the LPAR or any other WPARs running within it. In scenarios where multiple long-running applications are run in the same LPAR, running each in their own application WPAR will isolate them from the rest of the system, allowing other applications to continue to run unaffected.

System WPARs offer other advantages, such as the ability to run multiple CICS TG versions concurrently, testing new CICS TG releases before deploying, more lightweight installation packages, and the ability to run multiple Gateway daemons in the same LPAR.

IT simplification

This new release continues the process to simplify the installation, configuration, deployment, and management of CICS TG, including a range of enhancements to its plug-in for the CICS Explorer, JCA 1.6 support, and improved security management.

An enhanced CICS TG plug-in for CICS Explorer makes it even easier to manage CICS TG installations deployed on z/OS or distributed platforms. Gateways and connections can now be viewed, operated, and tested in the context of the CICS regions and applications they connect to, especially useful for enterprises with large or complex topologies. User-defined connection groups can now be created, and the connection import/export capability enables sharing of definitions between multiple CICS Explorer users. Column sorting of the CICS TG gateway and connection views helps customers with large CICS TG deployments.

CICS TS for z/OS (CICS TS) V4.2 introduced transaction tracking to assist customers in diagnosing problems that sometimes occur when complex distributed transactions spread across a CICSplex. CICS TG V8.1 now builds on this capability by providing access to transaction origin data from within request monitoring exits, deployed in Java client topologies. This gives ECI Version 2 clients the ability to set the CICS TG client APPLID, which can then be accessed within the origin data section of the CICS task association data. These capabilities extend the scope for the end-to-end monitoring of distributed transactions using tools such as the CICS TG Simple Request Monitor provided in CICS SupportPac CH51.

New in CICS TG V8.1 (excluding Desktop Edition) is JCA 1.6 exploitation, when used in conjunction with supporting JEE 6 certified applications servers such as WebSphere Application Server V8. With JCA 1.5, if customers had different applications requiring one-phase and two-phase commit processing, they needed to install and configure two resource adapters. Now, with JCA 1.6, which pushes the transactional attribute up to the connection factory level, only one resource adapter is required, reducing confusion about which resource adapter to pick, reducing maintenance overheads, and increasing flexibility in deployment.

Security enhancements include support for password phrases with ECI and ESI requests to CICS TS V4.2, and the ability to use the ESI to verify security credentials and change passwords and password phrases when connected to CICS TS using IPIC connections. Password phrases allow longer and more complex strings of mixed-case characters to be used to authenticate a user ID. Longer password phrases offer improved system protection and greater usability since they are less likely to be guessed and require more processing power to sustain an attack.

Previously ESI support was only available using CICS TG for Multiplatforms with SNA connections, so the new ESI support using IPIC connections provides password expiry management capabilities to the z/OS customer for the first time and can assist CICS TG for Multiplatforms customers in their migration efforts from

SNA to IPIC. This improved password management is available for all supported programming languages.

A new message help look-up utility is provided, offering immediate assistance for systems administrators on CICS TG for Multiplatforms.

Open platform integration

CICS TG V8.1 extends its ability to integrate applications with CICS, with a number of important enhancements.

On Microsoft Windows, the CICS TG .NET API is extended to use CICS channels and containers, providing relief from the previous 32KB limit for a COMMAREA, enabling the transmission and receipt of the large data-streams that are more prevalent today. Again, on Microsoft Windows, the .NET API now provides interoperability with 32-bit or 64-bit compilers and runtime environments.

Platform support is extended to include AIX V7, including POWER® 7, and Red Hat Enterprise Linux (RHEL) V6 on Intel, Power®, and System z, enabling customers to benefit from the new capabilities of those platforms.

On z/OS, CICS TG now supports IBM 31-bit SDK for z/OS Java Technology Edition, Version 6.0.1, providing exploitation of z196 hardware instructions.

New and updated function delivered by APAR PTF since prior release

PM30310, UK63867 -- CICS TG logging of CICS messages when the IPIC protocol is used and a security error occurs.

PM34809 -- (Not applicable to CICS TG for z/OS) - cicsterm support for additional default colors when using a 3270 datastream with extended attributes.

PM43501, UK70782, and PM45026 -- New CICS TG statistics to reflect network latency for remote clients.

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

The Information Center is accessible to people with visual, physical, or hearing impairment. All functions can be performed without the use of a mouse. Text descriptions are provided for all diagrams, which can be read by a screen reader. The publications documents are also provided in PDF format; this is accessible using Acrobat Reader 8.1, 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 V8.1 products are capable, as of December 2 2011, 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 for System z products

Value Unit pricing for eligible 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

An increasingly competitive economic environment is driving many businesses to transform their existing CICS applications using SOA and Web 2.0 strategies. The same pressures also force IT managers, CICS system programmers, and application developers to develop applications and operate systems at peak level while maintaining service level commitments and meeting regulatory and corporate governance requirements.

To help support this demanding environment, CICS TG provides a production-proven, high-performing, security-rich and scalable JEE connector that requires minimal changes to CICS systems and usually no changes to existing CICS applications. CICS TG allows you to rapidly service-enable your CICS applications by connecting them to new environments, such as the enterprise service bus (ESB) at the heart of your SOA.

To enable comprehensive composite application serving infrastructures, CICS TG provides connectivity from WebSphere SOA foundation servers to CICS TS. The strategic interface within CICS TG that enables this is the JCA adapter, a component of the JEE specification.

JCA is a popular method of JEE connectivity because of its ease of implementation and high qualities of service. It delivers managed qualities of service for connections, transactions and security and is transparent to application developers.

In a managed environment, like that of WebSphere Application Server system, contracts enable these management capabilities. They help to make the JCA a robust solution for integrating COMMAREA or container-based CICS applications with JEE applications running in WebSphere Application Server.

Tightly-coupled connectivity solutions such as JCA, along with other JEE standard services, such as Java Message Service (JMS) and Java Database Connectivity (JDBC), can coexist with loosely-coupled web services to take advantage of the agility of an SOA.

The term tightly-coupled means that there is a predetermined client-server or consumer-publisher relationship that is not easy to change. In such a case, for a given client there is typically only one specific server with technical interaction that is fault-sensitive. Therefore, the client has to handle protocol-related errors.

Loosely-coupled systems are often designed to work on a problem partitioned around data flow boundaries in which workers solve only one part of a larger problem, the context of which is not necessarily known. Often, such systems are inherently extensible by means of adding more workers. The choice among web services and JCA implementations for integration is based on multiple criteria. By mapping to the requirements for particular solutions and by prioritizing these requirements, architects can choose the right implementation for their particular case.

Choosing the right deployment platform for your gateway is important. CICS TG V8.1 currently supports the following platforms:

- z/OS
- AIX
- Linux on Intel, POWER or System z
- Microsoft Windows
- Oracle Solaris on the SPARC platform
- HP-UX on 64-bit HP Itanium™

Connectivity is provided on these platforms from all supported WebSphere Application Server environments to all supported CICS servers. The qualities of service of CICS TG are highest when deploying on the z/OS platform.

IBM TXSeries for Multiplatforms is a distributed CICS Online Transaction Processing (OLTP) environment for business-critical applications written in enterprise programming languages. CICS TG is the strategic connector between TXSeries CICS servers and WebSphere Application Servers. TXSeries is the ideal deployment environment for high-performance, distributed transactional applications that integrate well into your mixed-language, multiplatform SOA solution. TXSeries for Multiplatforms V7.1 extends and enhances the next generation of distributed CICS across a number of platforms. For further details on TXSeries for Multiplatforms V7.1, refer to its announcement in the [Reference information](#) section.

To help you transform your CICS TS into your SOA hub on System z, the Rational® Tools and the CICS tools deliver support across the life cycle, whether you are building new or reusing existing applications. Rational tools helps you to modernize and transform existing CICS applications whether your goal is to develop and deploy new workloads to leverage the unique performance, availability, security, and cost benefits of System z, or to increase your responsiveness to business requirements by modernizing your mainframe platform. CICS tools enable you to optimize the

management of your IT environment, reducing cost and complexity while improving governance and compliance.

CICS and System z tools enhance the CICS family of transaction processing solutions by analyzing and optimizing the functionality, performance, and efficiency of CICS systems. Some of these tools help your customers make the most of their CICS TG:

- IBM Tivoli® OMEGAMON® XE for CICS TG on z/OS - Real-time performance management, monitoring, and troubleshooting for CICS TG.
- CICS Performance Analyzer for z/OS (CICS PA) - a reporting tool that provides information on the performance of CICS systems and applications. Built to address CICS performance analysis, system tuning and capacity planning, CICS PA also helps with management and upgrading of CICS systems to the latest versions of CICS TS. CICS PA provides a level of detail and flexibility that can easily help find new ways to improve CICS system performance, lower maintenance costs, and strategically plan IT investments. CICS PA V3.2 offers support for the SMF 111 records generated on z/OS by CICS TG V8.1, providing an even more comprehensive understanding of CICS system performance.

For more details of the CICS Tools family, visit

<http://ibm.com/cics/tools/>

For a trial of CICS TG, please contact your local IBM sales representative.

Reference information

For the announcement of CICS TS for z/OS V4.2, refer to Software Announcement [211-080](#), dated April 05, 2011

For the announcement of TXSeries for Multiplatforms V7.1, refer to Software Announcement [209-040](#), dated March 17, 2009

Program number

Program number (PID)	VRM	Program name
5655-w10	8.1.0	CICS TG for z/OS
5724-I81	8.1.0	CICS TG for Multiplatforms
5725-B65	8.1.0	CICS TG Desktop Edition

Product identification (PID) number

Program number (PID)	Subscription and Support PID number
5655-w10	5655-M70

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=211-357>

Publications

No hardcopy publications are shipped with either of these products.

For CICS TG for Multiplatforms, and CICS TG Desktop Edition, the associated Information Center is provided on the accompanying product media pack DVD.

Effective December 2, 2011, the Information Center for CICS TG can also be accessed at the following websites

<http://publib.boulder.ibm.com/infocenter/cicstgzo/v8r1/index.jsp>

<http://publib.boulder.ibm.com/infocenter/cicstgmp/v8r1/index.jsp>

Included in the associated Information Center are the following documents:

PDFs available at IBM publications center	Order number
CICS TG V8.1 Program Directory	GI13-0575
CICS TG for z/OS V8.1 z/OS Administration	SC34-7220
CICS TG for z/OS V8.1 Programming Guide	SC34-7221
CICS TG for Multiplatforms V8.1 UNIX and Linux Admin.	SC34-7216
CICS TG for Multiplatforms V8.1 Windows Administration	SC34-7217
CICS TG for Multiplatforms V8.1 Programming Guide	SC34-7218
CICS TG for Multiplatforms V8.1 Programming Reference	SC34-7219
CICS TG for Multiplatforms V8.1 Messages	SC34-7222

Information center downloads at IBM publication center	Order number
CICS TG for z/OS V8.1 Information Center plug-in	SC34-7227
CICS TG for z/OS V8.1 Information Center (Windows)	SC34-7228
CICS TG for z/OS V8.1 Information Center (AIX)	SC34-7229
CICS TG for z/OS V8.1 Information Center (Linux)	SC34-7230
CICS TG for z/OS V8.1 Information Center (z/OS)	SC34-7231
CICS TG for Multiplatforms V8.1 Information Center plug-in	SC34-7223
CICS TG for Multiplatforms V8.1 Information Center (Windows)	SC34-7224
CICS TG for Multiplatforms V8.1 Information Center (AIX)	SC34-7225
CICS TG for Multiplatforms V8.1 Information Center (Linux)	SC34-7226

The Information Center is based on the Eclipse platform. Delivery in this form exploits a common framework that is now employed by many other IBM products. This brings a range of benefits to the user. One of these is that the use of a common framework gives a common look and feel, and consistency of behavior across all the using products. The infrastructure also allows you to customize your own Information Centers using plug-ins from multiple products, or to write your own plug-ins.

The IBM Publications Center

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

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

Specified operating environment

Hardware requirements

CICS TG V8.1 will run on any of the following hardware, supported by an operating system listed in the [Software requirements](#) section.

- AIX: 32-bit or 64-bit IBM System p® machine supported by IBM AIX
- Linux: 32-bit or 64-bit Intel Pentium™, AMD Opteron or Intel EM64T supported by Linux; 64-bit IBM System p machine supported by Linux; IBM System z machine supported by Linux
- Oracle Solaris: 32-bit or 64-bit SPARC system supported by Oracle Solaris Operating Environment
- Microsoft Windows: 32-bit or 64-bit Intel Pentium, AMD Opteron or Intel EM64T supported by Microsoft Windows
- z/OS: IBM System z

For the latest information about hardware supported by CICS TG V8.1, visit

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

Software requirements

The following is a summary of supported operating systems for CICS TG V8.1:

- z/OS V1.11, or later
- AIX V5.3 (with 32-bit or 64-bit kernel), AIX V6.1 (with 64-bit kernel), or later
- Linux on System z: Red Hat Enterprise Linux (RHEL) 5, RHEL 6, SLES 10, or SLES 11 (with 64-bit kernel)
- Linux on Intel: RHEL 5, RHEL 6, SLES 10, or SLES 11 including Desktop versions (with 32-bit or 64-bit kernel)
- Oracle Solaris V10 (with 32-bit or 64-bit kernel)
- HP-UX: 64-bit HP Itanium
- Microsoft Windows Vista, Windows 7 Business, Professional, Enterprise and Ultimate Editions (with 32-bit or 64-bit kernel)
- Microsoft Windows 2008 and Windows 2008 R2 Standard (including Small Business Server), Enterprise and Datacenter Editions (with 32-bit or 64-bit kernel)

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 for z/OS V3.1, or later
- TXSeries for Multiplatforms V6.1, or later
- CICS/VSE V2.3
- CICS TS for VSE V1.1.1
- CICS TS for i5/OS® V5.4, or later
- CICS TS for i V7.1

For information regarding currently supported operating systems and CICS servers, visit

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

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.

Compatibility

Named pipe protocol compatibility

For CICS TG for Multiplatforms V8.1, or later, the Named Pipe protocol on Microsoft Windows platforms is no longer supported. The recommended migration path is to move connections to a TCP/IP-based protocol.

ECI Version 2 compatibility

For ECI Version 2 user IDs and passwords, for new applications and existing applications that are recompiled, use the new `eci_userid_ptr` and `eci_password_ptr` fields in the `CTG_ECI_PARMS` structure, and set the `eci_version` field to `ECI_VERSION_2A`.

Existing ECI Version 2 applications do not need to be recompiled and will experience no change in runtime behavior. However, compile time support for the older style fields `eci_userid`, `eci_password` and constants `ECI_USERID_LENGTH`, `ECI_PASSWORD_LENGTH` might be removed by IBM in a future release.

User group requirements

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

Requirement number	Description
MR0115107224	Channels and Containers support for .NET ECI
MR0211102215	CICS TG round-robin dynamic routing of EXCI and IPIC requests
MR1119024051	CICS TG for z/OS to support External Security Interface
MR0226071637	ESI support for CICS TG connected to CICS via TCP/IP
MR0216104043	Store CICS TG for z/OS configuration MVS™ datasets
MR1018077157	CICS TG for z/OS to allow the configuration file (<code>ctg.ini</code>) to be a regular z/OS file
MR0119113611	CICS TG on AIX support for WLM function
MR0403095614	CICS TG for AIX to support multiple Gateway daemons
MR041510252	Enhance the connection testing capabilities of the CICS TG plug-in for CICS Explorer to cater for specific bind addresses
MR063011446	CICS TG metrics for remote client I/O time
MR111710593	CICS TG statistics for remote client network time
MR0913102548	Improve diagnostic details for JCA connection error message CTG9631E
MR0218112841	CICS TG for Multiplatforms terminal emulator to support different colors for extended attribute fields
MR052303492	CICS TG ECI Call returns <code>ECI_ERR_SYSTEM_ERROR (-9)</code> after SIGINT signal is received

Planning information

Packaging

For CICS TG for z/OS V8.1

CICS TG for z/OS V8.1 is shipped using CBPDO or other customized offerings on 3590 tape.

Also shipped are:

- Documentation CD-ROM (LCD7-4458-00)
- License Information in multi-language booklet (GC34-7247-00)

For CICS TG for Multiplatforms V8.1 and CICS TG Desktop Edition V8.1

These distributed products will be delivered via Passport Advantage®. The software and documentation will be available for electronic download and on a DVD in a media pack. The media pack for CICS TG for Multiplatforms V8.1 and CICS TG Desktop Edition V8.1 will include:

- Program, documentation, and publications 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 V8.1 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

The distributed products in this announcement are only available via Passport Advantage. They are not available as shrinkwrap.

Product group: IBM CICS

Product Identifier	Description	Product number (PID)
IBM CICS Transaction Gateway for z/OS		5655-W10
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)

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
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 8.1 Multilingual Media Pack	BA12EML
CICS TG Desktop Edition for Multiplatforms Version 8.1 Multilingual Media Pack	BA12DML

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
ICS 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

Part description Part number

CICS TG Processor Day OOCOD Temporary Use
Charge ASQ68LL

The IBM z/OS program in this announcement has Value Unit-based pricing.

Charge metric

Program name	PID number	Charge metric/unit
CICS TG for z/OS V8.1	5655-w10	Value Units
CICS TG for z/OS Subscription and Support	5655-M70	Value Units
CICS TG V8.1	5724-I81	Processor Day
CICS TG V8.1	5724-I81	Processor Value Unit (PVU)
CICS TG V8.1	5724-I81	PVU for zBX and Linux on System z
CICS TG V8.1	5724-I81	PVU System z
CICS TG Desktop Edition V8.1	5725-B65	Authorized User
CICS TG Desktop Edition V8.1	5725-B65	Authorized User for zBX and Linux on System z
CICS TG Desktop Edition V8.1	5725-B65	Authorized User for System z

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 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 at

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

* 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.

For CICS TG for z/OS

Ordering IBM z/OS through the Internet

ShopzSeries provides an easy way to plan and order your IBM z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on IBM 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

CICS TG

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

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

CICS TG for Multiplatforms Version 8.1 Multilingual Media Pack Reseller authorization required	BA12EML
CICS TG Desktop Edition for Multiplatforms Version 8.1 Multilingual Media Pack	BA12DML

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)
Tradeup part numbers	Description
D0G86LL -	CICS TG Desktop Edition Authorized User Trade Up from CICS 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
 +12 Months Trade Up Lic
 + SW Subscription
 + Support 12 Months

Consult your IBM representative if you have any questions.

Basic license

For CICS TG for z/OS V8.1

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

CICS TG for z/OS V8.1 is 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 V8.1
 Program PID 5655-W10

Entitlement Identifier	Description	License Option/Pricing Metric
S01641G	CICS TG for z/OS V8.1	Basic OTC, Per MSU-day TUC

For CICS TG for z/OS V8.1

Program Name CICS Transaction Gateway for z/OS V8.1
 Program PID 5655-W10

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
S01641G	CICS TG for z/OS V8.1	Basic OTC, Value units
Orderable Supply ID	Language	Distribution Medium
S016KR7	U.S. English	3590 tape cartridge uncomp

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

Subscription and Support - for 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 (IAASM). 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.

Single version charging

To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

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 IBM z/OS program in this announcement has Value Unit-based pricing.

Program Number	Program Name	Value Unit Exhibit
5655-w10	CICS Transaction Gateway z/OS v8.1	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

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	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 for IBM z/OS host products

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac®.

CBPDO and ServerPac 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 ShopzSeries 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 for CBPDO, ServerPac, and SystemPac, include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. IBM z/OS can be ordered via all three offerings at general availability. 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.
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

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 V8.1, and CICS TG Desktop Edition V8.1

These products are only available via Passport Advantage. They are 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) agreement applies for subscription and support (also referred to as Software Maintenance) and does not require customer signatures.

The following agreement 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 V8.1: L-SBRY-8JJD9B

CICS TG Desktop Edition V8.1: L-SBRY-8JJDLD

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

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

Program Unique Terms

CICS Explorer Plug-in

The Program includes a plug-in to support the use of the IBM CICS Explorer with the Program. The supplied plug-in is licensed by IBM, under the terms and conditions of this license, solely for use by Licensee with a copy of the IBM CICS Explorer. Licensee's authorization to use the supplied plug-in will expire automatically upon expiration of Licensee's authorization to use the Program.

For CICS TG Desktop Edition only

Single user use only

For all platforms, Licensee is only licensed to use the Program as a single user. Specifically, Licensee is not licensed to use the Program on a server or in a multi-user environment. Therefore, the Program may not be installed on an application server. In order to be licensed for any multi-user access to CICS, Licensee must first ensure that they have acquired a licensed copy of CICS Transaction Gateway for Multiplatforms for each relevant system or environment.

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 V8.1

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 form number

CICS TG for z/OS V8.1: L-SBRY-8JJB6U

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

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

Program unique terms

IBM CICS Explore Plug-in

The Program includes a plug-in to support the use of the IBM CICS Explorer with the program. The supplied plug-in is licensed by IBM, under the terms and conditions of this license, solely for use by Licensee with a copy of the IBM CICS Explorer. Licensee's authorization to use the supplied plug-in will expire automatically upon expiration of Licensee's authorization to use the program.

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 (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/sl/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 and System z host products

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-w10	CICS TG for z/OS v8.1	Reference-based	5655-M15 5655-S97

Full-capacity mainframes

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

Execution based, IBM 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.

IBM z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of IBM 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 IBM OS/390® operating system must be migrated to the IBM z/OS operating systems.
- Any licenses for the IBM OS/390 operating system must be discontinued.
- All instances of the IBM 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 for System z host products

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

On/Off Capacity on Demand (CoD) for the IBM z/OS host product

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.

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Prices

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Choose the option entitled Purchase/upgrade tools.

Program name: CICS TG for z/OS V8.1
Program PID: 5655-W10

Entitlement identifier	Description	License option/Pricing metric
S01641G	CICS TG for z/OS V8.1	Basic OTC, Per MSU-day TUC
S01641G	CICS TG for z/OS V8.1	Basic OTC, Value units

Subscription and Support PID: 5655-M70

Entitlement identifier	Description	License option/Pricing metric
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

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