IBM CICS Transaction Gateway for Multiplatforms V7.1 delivers access to CICS containers and extended systems monitoring capabilities

At a glance

CICS Transaction Gateway (CICS TG) for Multiplatforms V7.1 provides important new capabilities:

- Extended CICS integration support, exploiting the new IP Interconnectivity (IPIC) for Distributed Program Link (DPL) provided in CICS Transaction Server (CICS TS) for z/OS V3.2

- Extensions to systems monitoring capabilities, including advanced system metrics, interval statistics, a transaction monitoring infrastructure, and advanced workload monitoring through the support of Extended Workload Management (EWLM)

For ordering, contact:

Your IBM representative or the Americas Call Centers at

800-IBM-CALL Reference: YE001

Overview

CICS® Transaction Gateway (CICS TG) for Multiplatforms V7.1, a market-leading Java™ 2 Platform, Enterprise Edition (J2EE) connector, 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.

The new release of CICS TG for Multiplatforms V7.1 provides interoperation with the CICS Transaction Server for z/OS® (CICS TS) V3.2 channels and containers programming model. This allows J2EE applications to exchange large amounts of data with CICS programs, far exceeding the 32-KB limit that applies to COMMAREA-based interactions.

CICS TG for Multiplatforms V7.1 also delivers the following in the area of extended CICS integration:

- New deployment options for XA support, to enable two-phase commit from J2EE applications in WebSphere® Application server directly into CICS TS V3.2
- New deployment options for SSL support, to enable Java clients to use an encrypted connection directly into CICS TS V3.2

There are also a range of systems monitoring improvements, providing:

- Advanced system metrics providing enhanced problem determination and capacity planning capabilities
- A transaction monitoring infrastructure for end-to-end analysis of composite J2EE and CICS applications
- Support for Enterprise Workload Manager (EWLM) when using IP
Interconnectivity (IPIC) connections to CICS TS V3.2, makes possible end-to-end workload monitoring of composite applications deployed in WebSphere Application Server and CICS TS.

In addition extended interoperability is provided through the support for use of the CICS TG with a number of 64-bit run-time operating environments.

## Key prerequisites

**Hardware requirements** — Both the CICS TG for Multiplatforms V7.1 and the CICS Universal Client V7.1 run on any hardware capable of running the relevant operating system and prerequisite software. For more details, refer to the Hardware requirements section.

**Operating systems** — For details, refer to the Software requirements section.

### Planned availability dates

- November 30, 2007 (electronic software delivery)
- December 7, 2007 (media and documentation)

## Description

### CICS TG for Multiplatforms V7.1

CICS TG, a market-leading Java 2 Platform, Enterprise Edition (J2EE) connector, is production-proven for over a thousand customers as a high-performing, security-rich, and scalable method of SOA access to CICS. CICS TG:

- Delivers J2EE standards-based access to CICS applications, while requiring minimal changes to CICS and usually no changes to existing CICS applications
- Enables the rapid deployment of CICS applications as services in an enterprise-wide SOA
- Allows the reuse of existing CICS applications as services in comprehensive and sophisticated J2EE and Web services solutions hosted on powerful application servers such as WebSphere Application Server
- Allows CICS applications to be rapidly service-enabled by connecting them to new environments — such as the Enterprise Service Bus (ESB), the heart of an SOA

The strategic interface within CICS TG that enables this connectivity is the J2EE Connector Architecture (JCA) Common Client Interface (CCI), a core component of J2EE that defines a programming standard to all enterprise information systems (EISs). JCA is now a popular method of connectivity because of its ease of implementation and high qualities of service. Using Java Servlets or Enterprise JavaBeans (EJB) components, the ECI can be utilized to allow access to CICS COMMAREA-based applications. A choice of TCP/IP or SSL connectivity options is supported.

### Enhancements in CICS TG for Multiplatforms V7.1

CICS TG for Multiplatforms V7.1 provides significant enhancements over previous releases in three principle areas:

- Extended CICS integration
- Advanced systems monitoring
- Extended interoperation

### Extended CICS integration

CICS TG V7.1 now exploits the IPIC for DPL provided in CICS TS V3.2. This new CICS intercommunication protocol is part of a multi-release cross product initiative, introduced by CICS TS V3.2. Use of IPIC connections through the CICS TG provides the following benefits:

Channels as modern-day COMMAREAs — Interoperation with the CICS TS V3 channels and containers programming model provides an improved method of exchanging data with CICS programs, in amounts that far exceed the 32-KB limit that applies to COMMAREAs and additionally provides an optimized and more structured data interface. Support is provided from...
both the JCA ECI resource adapter and the CICS TG base classes.

Extended XA support — Deployment options when using XA support with the CICS ECI resource adapter are expanded to the CICS TG on distributed systems when used in local mode. This feature enables J2EE applications to invoke CICS applications within the scope of a two-phase commit transaction using theXA capabilities of CICS TS for z/OS V3.2.

Extended Secure Sockets Layer/Transport Layer Security support — Options for secure intercommunication are enhanced through the exploitation of the CICS TS V3.2 support for SSL/TLS, when using a local CICS TG on any supported platform. This feature enables Java clients to use an encrypted connection to a CICS TS V3.2 system, providing for secure transmission of data and optionally for authentication using X509 certificates.

CICS TG continues to provide optimized Interconnectivity from a wide variety of clients into all CICS systems supported by IBM. CICS TG V7.1 will provide the following enhancements to network connectivity:

TCP/IP network optimizations — TCP/IP network optimizations are provided to improve response times for Java clients connecting to CICS through the Gateway daemon.

Simplified SNA configuration — Support for fully qualified SNA partner LU names, provides for easier configuration of SNA clients in an APPN® network, simplifying the migration of TCP62 connections to Enterprise Extender for customers who continue to require APPC interconnectivity in a TCP/IP network.

Advanced systems monitoring

CICS TG V7.1 now provides enhanced facilities for capacity planning and problem determination within the Gateway daemon. Use of CICS TG V7.1 provides the following benefits:

Advanced system metrics — Advanced capacity planning, throughput and availability metrics will be provided for the Gateway daemon on all platforms. This function allows systems administrators and capacity planners to analyze system utilization metrics and to perform on-line problem determination. New statistics will include network usage statistics for SNA, TCP/IP, and IPIC connections to CICS, usage of critical system resources including JVM heap, and analysis of response times and network throughput. If necessary, these values can be used to take action to reduce the need for planned outages or prevent the occurrence of unplanned downtime. These statistics are made available through the extended ctgadmin command-based system administration interface and the external statistical API.

Interval statistics — A mechanism is provided to reset statistics using a configurable interval. This will allow analysis of trends and peak usage, enhancing the ability to perform capacity planning and performance monitoring.

Transaction monitoring — A new request monitoring exit infrastructure is provided in the CICS TG for use in both local and remote Gateway scenarios. This infrastructure enables Independent Software Vendors (ISVs) to develop transaction monitoring solutions for on-line transaction tracking and off-line auditing. The exit infrastructure is provided in both the Java client and the Gateway daemon and reports response times and additional key information about all ECI-based requests as they flow through the CICS TG components.

Advanced workload monitoring — As part of the exploitation of CICS TS V3.2 IPIC, support is provided for EWLM over IPIC connections to CICS TS for z/OS V3.2. EWLM is the IBM implementation of the Application Response Measurement (ARM) standard from The Open Group. EWLM extends the capabilities of z/OS Workload Management (WLM) services to all members of the IBM eServer® family, making possible end-to-end workload monitoring in heterogeneous environments such as a WebSphere Application Server and CICS TS for z/OS environment. Additionally IPIC requests originating in a JCA resource adapter automatically contain point-of-origin information, enabling CICSPlex® SM (or equivalent CICS monitoring tools) to perform problem determination and off-line analysis of requests as they enter and flow across a CICSPlex.

Extended interoperation

Improved interoperability is provided through support for use of the CICS TG with the following 64-bit run-time operating environments:

- Windows® 2003 and Vista 64-bit operating systems
- Linux™ on Intel® with 64-bit kernels
- HP-UX on Itanium IA64 hardware

For further details on hardware and software environment supported refer to the Software
requirements section.

In addition the CICS TG on all platforms now provides support for changing the system time, providing for improved interoperability with 3rd party time synchronization software.

**CICS Universal Client for Multiplatforms V7.1**

CICS Universal Client V7.1 delivers simple and low-cost integration with CICS from Microsoft® Windows, Linux, and UNIX® systems. It provides access from a single user workstation to the tried and trusted transactional capabilities of CICS TS and TXSeries™ CICS servers.

CICS Universal Client communicates with CICS servers through External Call Interface (ECI), External Programming Interface (EPI), and External Security Interface (ESI). ECI helps optimize client and server operation and improve programmer flexibility by keeping business logic on the server and presentation logic on the client. EPI enables the client to programmatically interact with 3270 data-stream-based transactions. There are also 3270 emulation capabilities that enable a workstation to function as a 3270 display or printer for CICS applications. ESI enables appropriate user applications to verify that a password corresponds to an existing user ID, and allows passwords to be changed to facilitate better user ID and password management.

Programming interfaces are provided in C/C++, COM (for Visual Basic or Visual Basic Script support), and COBOL. It delivers TCP/IP and SNA LU6.2 networking options to connect to your CICS systems.

Single user licences of CICS Universal Client should be considered by anybody looking to distribute single-user, low-cost CICS access across the enterprise. CICS Universal Client V7.1 delivers the following enhancements over previous versions:

**Other enhancements**

**Clock changes**

CICS TG now supports changes to system time while running.

**Enhancements in CICS Universal Client V7.1**

**Simplified SNA configuration**

Support for fully qualified SNA partner LU names, provides easier configuration of SNA clients in an APPN network, simplifying the migration of TCP62 connections to Enterprise Extender for customers who continue to require APPC interconnectivity in a TCP/IP network.

**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 6.0, or later.

A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at


**Section 508 of the U.S. Rehabilitation Act**

CICS Transaction Gateway for Multiplatforms 7.1 is capable as of December 7, 2007, when used in accordance with IBM's associated 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. A U.S. Section 508 VPAT, containing details on the
IPLA and Subscription and Support considerations

IPLA licenses can be transferred from one machine to another within, but not limited to an enterprise. You may aggregate the capacity for all the processors the product is operated on to achieve a more economic price. This will result in a single Proof of Entitlement (PoE). It is your responsibility to manage the distribution of Value Units within the limits of the entitlement of the product license.

Subscription and Support must cover the same capacity as the product license entitlement. Subscription and Support will be available in the country in which the agreement is made.

Product positioning

One of the key attributes of an SOA is its ability to reuse existing program assets. For many organizations, their key existing program assets are CICS-based applications. CICS TG allows CICS applications to be rapidly service-enabled by connecting them to new environments, such as the ESB, the heart of an SOA. To enable comprehensive composite-application-serving infrastructures, CICS TG provides connectivity from WebSphere SOA foundation servers to CICS TS for z/OS.

The strategic interface within CICS TG that enables this is the JCA adapter, a core component of J2EE that defines a programming standard to all EISs. JCA is a popular method of J2EE connectivity because of its ease of implementation and high qualities of service. JCA provides delegated management of connections, transactions, and security that are 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 J2EE applications running in WebSphere Application Server.

Tightly coupled connectivity solutions such as JCA, along with other J2EE 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.

Choosing the right deployment platform for your gateway is important. CICS TG V7.1 currently supports the following platforms:

- z/OS
- AIX®
- Linux on Intel, POWER™ or IBM System z™
- Microsoft Windows
- Sun Solaris on the SPARC platform
- HP-UX on RISC or Itanium platforms

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. The comparison of the qualities of service delivered on each platform and in each configuration is discussed in the publication, Integrating WebSphere Application Server and CICS TS using the Java Connector Architecture (G224-7218).

TXSeries for Multiproducts is a distributed CICS Online Transaction Processing (OLTP) environment for business critical applications written in enterprise programming languages, and 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, multiproduct SOA solution. TXSeries for Multiproducts V6.1 extends and enhances the next generation of distributed CICS across a number of platforms. For further details on TXSeries for Multiproducts V6.1, refer to its announcement in the Reference information section.

System z Tools help to modernize and transform existing CICS applications whether the goal is to develop and deploy new workloads to leverage the unique performance, availability, security, and cost benefits of System z; to increase responsiveness to business requirements and by modernizing the mainframe platform; or to optimize management of the IT environment, reducing
cost and complexity while improving governance and compliance. To help transform CICS TS into a SOA hub on System z, System z Tools deliver support across the life cycle whether building new or reusing existing applications.

Developers can now use CICS PA to understand the performance of new or changed CICS applications and to identify performance improvements including the runtime analysis of the CICS TG on z/OS. This will get the most benefit from your CICS application investments with reduced risk. In addition IBM Tivoli® OMEGAMON® XE for CICS TG can be used together with IBM Tivoli OMEGAMON XE for CICS to provide detailed metrics that help to diagnose performance-related problems within the problem management process, and to provide performance trend information for the capacity management process.

Reference information

Refer to Software Announcement 207-277, dated November 6, 2007.
Refer to Software Announcement 206-267, dated October 24, 2006.

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Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

No hardcopy publications are shipped with these products.

Information for CICS® TG for Multiplatforms V7.1 is provided in the form of an Information Center 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 users to customize their own Information Centers using plug-ins from multiple products, or to write their own plug-ins.

The Information Center for CICS TG for Multiplatforms V7.1, is shipped on CD-ROM with the product. This Information Center applies to CICS TG for z/OS V7.1, CICS TG for Multiplatforms V7.1, and CICS Universal Clients V7.1.

From November 9, 2007, the Information Center can also be accessed at this Web site
For CICS TG

http://publib.boulder.ibm.com/in
focenter/cicstg/v7r1m0/index.jsp

For CICS Universal Client

http://publib.boulder.ibm.com/in
focenter/cicsuc/v7r1m0/index.jsp

Included in the Information Center are the following documents, which specifically apply to CICS TG for Multiplatforms V7.1:

• CICS Transaction Gateway: UNIX® and Linux™ Administration (SC34-6752)
• CICS Transaction Gateway: Windows® Administration (SC34-6753)
• CICS Universal Client: UNIX and Linux Client Administration (SC34-6755)
• CICS Universal Client: Windows Client Administration (SC34-6756)
• CICS Transaction Gateway: Messages (SC34-6757)
• CICS Transaction Gateway: Programming Guide (SC34-6758)
• CICS Transaction Gateway: Programming Reference (SC34-6759)

Technical information

Specified operating environment

Hardware requirements: CICS TG V7 and CICS Universal Client V7 will run on any of the following hardware supported by an operating system listed in Software requirements section

• IBM System z™ machine supported by Linux
• 32-bit or 64-bit IBM eServer® pSeries® system supported by AIX® or Linux
• 32- or 64-bit Sun SPARC system supported by Sun Solaris
• 32-bit or 64-bit HP PA-RISC 1.1 or 2.0 system supported by HP-UX
• 64-bit HP Itanium system supported by HP-UX
• Intel® Pentium® , AMD Opteron or Intel EM64T system supported by Microsoft® Windows or Linux (32- or 64-bit kernel support)

Software requirements: The following is a summary of the supported software for the CICS TG and CICS Universal Client. For complete and up to date information including specific versions and fixes required, refer to the IBM Web sites

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

For CICS TG

Operating systems

• AIX V5.3 or AIX V6.1 (with 32-bit or 64-bit kernels)
• Linux on System z: RHEL 4, RHEL 5 SLES 9, SLES 10 (with 64-bit kernels)
• Linux on Intel: RHEL 4, RHEL 5, SLES 9, or SLES 10, (with 32-bit or 64-bit kernels)
• Linux on POWER™ RHEL 4, RHEL 5, SLES 9, or SLES 10, (with 64-bit kernels)
• Solaris V9 or Solaris V10 (with 32-bit or 64-bit kernels)
• HP-UX11i V2 or V3 (with 32-bit or 64-bit kernels)
• Microsoft Windows 2000, Windows XP, Windows 2003 (with 32-bit or 64-bit kernels), or Windows Vista® (with 32-bit or 64-bit kernels)


J2EE Application Servers — WebSphere® Application Server V6.1

For CICS Universal Client

Operating systems

• AIX V5.3 or AIX V6.1 (with 32-bit or 64-bit kernels)
• Linux on System z: RHEL 4, RHEL 5, SLES 9, SLES 10 (with 64-bit kernels) SLES 10 (with 64-bit kernels)
• Linux on Intel: RHEL 4, RHEL 5, SLES 9, SLES 10, NLD 9 or SLED 10 (with 32-bit or 64-bit kernels)
• Linux on POWER: RHEL 4, RHEL 5, SLES 9 or SLES 10 (with 64-bit kernels)
• Solaris V9 or Solaris V10 (with 32-bit or 64-bit kernels)
• HP-UX11i V2 or V3 (with 32-bit or 64-bit kernels)
• Microsoft Windows 2000, Windows XP, or Windows Vista (with 32-bit kernels)

Compatibility: The following compatibility statements apply to either the CICS TG for Multiplatforms V7.1, CICS Universal Client V7.1, or both:

Compatibility

Removal of TCP62

In the announcement of CICS Transaction Gateway for z/OS V6.1 (refer to 205-248, dated October 4, 2005,) it was indicated that the next releases, that is CICS TG V7.0 and CICS Universal Client V7.0, would be the last releases that would contain TCP62 support for the AnyNet® protocol communicating with remote CICS systems using SNA over TCP/IP protocol encapsulation. Accordingly, this capability was removed from the V7.1 level of the products. For continued use of SNA over TCP/IP, it will be necessary to migrate TCP62 server definitions to SNA and implement another IBM Communications Server TCP/IP protocol encapsulation solution, such as Enterprise Extender or Remote API client support.

For information on migration for TCP62 to Enterprise Extender support refer to


For information on the removal of AnyNet support from z/OS Communications Server, refer to the z/OS and z/OS.e statements of direction announcement (Software Announcement 203-266, dated October 7, 2003,) and the z/OS V1.7 preview announcement (Software Announcement 205-034, dated February 15, 2005.)

CICS TG V7.1 will continue to support the following features of the CICS TG base classes, although support may be withdrawn in a future release:

• Generic replies for asynchronous ECI requests
• Non-validated message qualifiers for asynchronous ECI requests
• Non-validated units-of-work for ECI requests
• The AutoJavaGateway class

The recommended approach is to disable generic replies for asynchronous ECI requests, to validate all units of work and message qualifiers, and to use the local, tcp or ssl protocols in place of the auto protocol.

The CICS TG base classes (JavaGateway, ECIRequest, and EPIRequest) are supported within the Web container in WebSphere Application Server V6.1 for compatibility reasons, with the following limitations:

• The base classes (JavaGateway, ECIRequest, ESIRequest) are currently supported for
compatibility reasons, but support might be limited in a future release, and customers are encouraged to move to a JCA-based solution.

- All ECI requests must be non-transactional. This means that only the field ECI_NO_EXTEND is supported on the ECIRequest constructor as the Extend_Mode.
- All ECI requests must be synchronous, that is only the fields ECI_SYNC or ECI_SYNC_TPN are supported as the call types.
- The EPIRequest class is not supported with WebSphere Application Server. Use the EPI support classes (Terminal, Screen, and Field) instead.

Not that support might be limited in a future release, and customers are encouraged to move to a JCA-based solution.

Applets

Applet support remains in CICS TG for Multiplatforms V7.1, but it is expected to be removed in a future release. Users should be encouraged to move any applet based solution to a servlet or J2EE solution.

User group requirements

The following requirements from one or more of the worldwide user group communities have been addressed in this release:

- MR011907448 Response times included in the available stats provided by CTG
- MR052807547 CICS Transaction Gateway can not return the response in adjusting system clock
- MR090904744 CICS Transaction Gateway can not return the response in adjusting system clock
- MR1120062940 CICS Transaction Gateway Resettable Stats
- MR0518056443 Eliminate 32-KB limit for CICS Transaction Gateway communication
- MR0602052145 Provide real time monitoring capability for CICS Transaction Gateway
- MR1017053939 Provide Channel/Container support for CICS Transaction Gateway
- MR0203065721 Allow ATTACHSEC(IDENTIFY) for distributed CICS Transaction Gateway
- MR011907328 Interval high watermark
- MR101306386 CTG message CTG6882E incomplete

Planning information

Customer responsibilities: Software maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Maintenance offering as described in the agreements. Product upgrades provide the latest versions and releases to entitled software and technical support provides voice and electronic access to IBM support organizations, worldwide.

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

Packaging: CICS TG for Multiplatforms and CICS UC V7.1 is delivered via Passport Advantage. The software and documentation is available for electronic download and on a CD-ROM in a media pack.

The media pack for CICS TG for Multiplatforms and CIC UC V7.1 comprises:

- A CD-ROM containing the program
- A CD-ROM containing the publications
- A Passport Advantage Pointer Sheet
- A Quick Start Guide
Security, auditability, and control

CICS TG uses the security and auditability features of the host hardware or software.

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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

http://www.ibm.com/software/sw-services/

To locate an IBM Business Partner, visit:

http://www.ibm.com/software/solutions/isv

Ordering information

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

Product information

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Charge metrics definitions

Value Unit

A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurement is a processor core. However, for select programs, there are other designated measurements such as users, client devices, and messages.

The number of Value Unit entitlements required for a program depends on how the program is deployed in your environment and must be obtained from a Value Unit table. You must obtain a PoE for the calculated number of Value Unit entitlements for your implementation. The Value Unit entitlements are specific to a program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

Processor (Value Unit)

A processor core is a functional unit within a computing device that interprets and executes instructions. A processor core consists of at least an instruction control unit and one or more...
arithmetic or logic unit. With multicore technology, each core is considered a processor. Not all processor cores require the same number of Value Unit entitlements. To calculate the number of Value Unit entitlements required, refer to the value unit table on the following Web site:

http://www-142.ibm.com/software/s
w-Lotus&reg;/services/cwepassport
.nsf/wdocs/pvu_table_for_customers

With full capacity licensing, a PoE must be acquired for the appropriate number of value units based on all activated processor cores available for use on the server.

**Passport Advantage program licenses**

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<td>BA0LGML</td>
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</tbody>
</table>

**Passport Advantage customer: Media pack entitlement details**

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

<table>
<thead>
<tr>
<th>Entitled maintenance offerings description</th>
<th>Media packs description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS Universal Client V7.1.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CICS Universal Client 10 Value Units</td>
<td>CICS Universal Client V7.1 Multiplatform Multilingual Media Pack</td>
<td>BA0LGML</td>
</tr>
<tr>
<td>CICS Universal Client for Linux on zSeries(R) 10 Value Units</td>
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<tr>
<td>CICS Transaction Gateway V7.1.0</td>
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<tr>
<td>CICS Transaction Gateway</td>
<td>CICS Transaction Gateway</td>
<td>BA0LDM</td>
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</tbody>
</table>
Cross-platform product for use on System z

Order the part numbers that follow when there is an intention to acquire this cross-platform product for deployment on the System z or S/390® platform. This set of part numbers provides the identical supply and authorization as the other set in this announcement. The distinction is to identify the planned deployment platform.

<table>
<thead>
<tr>
<th>Program name/description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS Transaction Gateway Linux on z Value Unit Annual SW Maint Rnw</td>
<td>E021CLL</td>
</tr>
<tr>
<td>CICS Transaction Gateway Linux on z Value Unit Lic+SW Maint 12 Mb</td>
<td>D55L1LL</td>
</tr>
<tr>
<td>CICS Transaction Gateway Linux on z Value Unit SW Maint Reinstate 12 Mb</td>
<td>D55L2LL</td>
</tr>
<tr>
<td>CICS Universal Client Linux on z</td>
<td>E0204LL</td>
</tr>
<tr>
<td>CICS Universal Client Linux on z on z Value Unit Annual SW Maint Rnw</td>
<td>D551 DLL</td>
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<td>CICS Universal Client Linux on z</td>
<td>D551 ELL</td>
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<td>CICS Universal Client Linux on z on z Value Unit Lic+SW Maint 12 Mb</td>
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<td>CICS Universal Client Linux on z on z Value Unit SW Maint Reinstate 12 Mb</td>
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</table>

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

<table>
<thead>
<tr>
<th>Part description</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM CICS Transaction Gateway</td>
<td></td>
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<tr>
<td>IBM CICS Transaction Gateway Processor Day OOCOD Temp Use ASQ68LL</td>
<td></td>
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<tr>
<td>IBM CICS Universal Client</td>
<td></td>
</tr>
<tr>
<td>IBM CICS Universal Client Processor Day OOCOD Temp Use ASQ65LL</td>
<td></td>
</tr>
</tbody>
</table>

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This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

**LI form numbers**

<table>
<thead>
<tr>
<th>Program name</th>
<th>Program number</th>
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</thead>
<tbody>
<tr>
<td>CICS Transaction Gateway for Multiplatforms 7.1</td>
<td>5724-181</td>
<td>L-SBRY-6U2HBA</td>
</tr>
<tr>
<td>CICS Universal Client V7.1</td>
<td>5724-J09</td>
<td>L-SBRY-6U2HBA</td>
</tr>
</tbody>
</table>
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http://www.ibm.com/softwaresla/sladb.nsf

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**Product name**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Usage Restriction</th>
</tr>
</thead>
<tbody>
<tr>
<td>CICS Transaction Gateway for Multiplatforms V7.1</td>
<td>No</td>
</tr>
<tr>
<td>CICS Universal Client V7.1</td>
<td>No</td>
</tr>
</tbody>
</table>

**Usage restriction:** Yes

The CICS Universal Client V7.1 is for single users on desktop computers only, it must not be installed in a server or multi-user environment.

**Passport Advantage applies:** Yes, and through the Passport Advantage Web site at

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**System i™ Software Maintenance applies:** No

**Educational allowance available:** Not applicable

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