



IBM CICS solution packs for z/OS, V5.1 offer a convenient and more affordable way to optimize and modernize CICS applications and systems

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At a glance

The IBM® CICS® solution packs for z/OS® , V5.1:

- Offer a convenient and more affordable way to purchase key products in the CICS Tools family at a reduced inclusive price while benefiting from investments in previously purchased products.
- CICS Optimization Solution Pack is a packaged solution that includes key product offerings to assist with performance tuning of CICS systems and applications. For example, threadsafe enablement can yield up to 10% savings in CICS MIPS¹.
- CICS Modernization Solution Pack is a packaged solution that includes the key product offerings to help understand, reuse, and connect to CICS applications, enabling successful modernization projects.

¹ Based on IBM internal benchmarks, where the potential savings are only realized for applications which previously performed excessive Quasi-Reentrant (QR) or L8 mode Task Control Block (TCB) switching for IBM DB2® or IBM WebSphere® MQ calls.

If you have an active S&S contract for a previously purchased IBM product that is also part of a solution pack, then you are eligible to receive Value Unit credit when trading up to a CICS solution pack for z/OS , V5.1. For situations where a trade up path is not defined, contact your IBM representative.

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: LE001

Overview

The CICS solution packs for z/OS , V5.1 offer a convenient and more affordable way to purchase key products in the CICS Tools family at a reduced inclusive price while benefiting from investments in previously purchased products.

CICS Optimization Solution Pack for z/OS , V5.1 is a packaged solution that includes the following key CICS Tools product offerings to assist with performance tuning of CICS systems and applications:

- CICS Configuration Manager for z/OS (CICS CM), V5.1
- CICS Deployment Assistant for z/OS (CICS DA), V5.1
- CICS Interdependency Analyzer for z/OS (CICS IA®), V5.1
- CICS Performance Analyzer for z/OS (CICS PA), V5.1

CICS Modernization Solution Pack for z/OS , V5.1 is a packaged solution that includes the following key CICS Tools product offerings to provide a deeper understanding of currently deployed CICS application and system resources, enable expanded application connectivity from non-mainframe devices, and create the new CICS infrastructure required to support the increased workload expected for the modernized applications:

- CICS DA, V5.1
- CICS IA , V5.1
- CICS Transaction Gateway (CICS TG) for z/OS , V9.0

All CICS solution pack products include integrated plug-ins for CICS Explorer® , designed to simplify use by new staff and help to increase the productivity of experienced users.

If you have an active Subscription and Support (S&S) contract for a previously purchased IBM product that is also part of a solution pack, then you are eligible to receive Value Unit credit when trading up to a CICS solution pack for z/OS , V5.1. For situations where a trade-up path is not defined, contact your IBM representative.

All CICS Tools in the CICS solution packs, V5.1, support, and in many cases exploit and extend, the new features, resources, options, and metrics in CICS Transaction Server for z/OS (CICS TS), V5.1.

For more details on the CICS Tools family, visit

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

For more details on the CICS TG family, visit

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

Key prerequisites

CICS Optimization Solution Pack for z/OS , V5.1 and CICS Modernization Solution Pack for z/OS , V5.1 run on any S/390® or IBM eServer™ zSeries machine on which the applicable operating system and software will run.

For further details, refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

October 25, 2013

Description

The CICS solution packs for z/OS , V5.1, offer a convenient and more affordable way to purchase key products in the CICS Tools family at a reduced inclusive price while benefiting from investments in previously purchased products. All CICS solution pack products include integrated plug-ins for CICS Explorer to simplify use by new staff and increase productivity of experienced users.

The CICS Optimization Solution Pack for z/OS , V5.1 delivers a comprehensive portfolio of IBM optimization tools for CICS . The product combines the features and functions of CICS CM V5.1, CICS DA V5.1, CICS IA V5.1, and CICS PA V5.1. These four CICS Tools products are complementary. They make the end-to-end analysis and optimization of CICS systems and applications faster and easier, by supporting improved CICS application performance, more efficient resource utilization, and improved productivity for system administrators.

The CICS Optimization Solution Pack offers a suite of tools that are useful separately, but when combined they can provide powerful application, system, and performance analysis and automation capabilities. Individually, each of the tools that comprise the CICS Optimization Solution Pack provides you with a wealth of insight into activity within CICS . This helps you to reduce CPU consumption, improve response times, plan capacity, and reduce administrative overheads, adding new value to your CICS investments.

In conjunction with CICS TS V5.1, threadsafe enablement can yield up to 10% savings in CICS MIPS¹. The CICS Optimization Solution Pack is intended to minimize the time needed to maximize your savings.

¹ Based on IBM internal benchmarks, where the potential savings are only realized for applications which previously performed excessive Quasi-Reentrant (QR) or L8 mode Task Control Block (TCB) switching for DB2 or WebSphere MQ calls.

Using these tools together provides a unique set of benefits. By using the CICS Optimization Solution Pack, you can perform the following tasks:

- Speed up the deployment of performance optimized CICS systems and applications.
- Migrate to the latest release of CICS TS.
- Implement CICSplex management.
- Identify candidates and implement region consolidation.
- Identify affinities and create workload management policies.
- Identify, and confirm the removal of, thread-switch hotspots, and confirm resulting performance improvements.
- Identify candidates and consolidate CICS regions.

The CICS Optimization Solution Pack can speed up the deployment of performance optimized CICS systems and applications. It provides a rich tooling set that can be used to optimize single CICS regions or complex topologies. High user productivity is achieved by using the CICS Explorer , the common, Eclipse-based workbench for CICS .

The CICS Modernization Solution Pack for z/OS , V5.1 delivers a comprehensive portfolio of IBM modernization tools for CICS , providing discovery, visualization, provisioning, and connectivity to help address key CICS modernization requirements. The product combines the features and functions of CICS IA V5.1, CICS DA V5.1, and CICS TG for z/OS V9.0. The three products are complementary

and make the modernization of CICS systems and applications faster and easier, delivering new capability more quickly and reliably.

Each of the tools that comprise the CICS Modernization Solution Pack provides you with a wealth of insight into activity within CICS .

This helps you to:

- Create a dynamic inventory of CICS applications and regions
- Build and maintain mobile-enabled and service-enabled applications
- Plan maintenance and testing
- Connect distributed customer applications
- Reduce administrative overheads

This adds new value to your CICS investments.

Using these tools together provides a unique set of benefits. The CICS Modernization Solution Pack lets you perform the following tasks:

- Quickly discover, understand, and visualize currently deployed CICS applications.
- Determine what is actually running.
- Expand user access to CICS application resources.
- Automated documentation of production CICS resources being consumed.
- Provision new development, test, and production CICS regions.
- Reuse currently deployed CICS application and data by allowing distributed servers and desktops the ability to connect to CICS servers.

This solution pack provides three key elements in reusing and modernizing CICS applications:

- The understanding of current production-deployed CICS resources
- Providing expanded user connectivity from non-mainframe devices
- The building of new CICS regions and infrastructure required to support modernized applications

Solution pack component products

The products contained in the two solution packs are described in the following text. For further details, refer to the relevant announcements that are listed in the [Reference information](#) section.

- CICS CM is a tool for administering and maintaining CICS resource definitions. By providing comprehensive audit, reporting, and life-cycle change management control facilities, this tool supports the build, management, and deployment of complex, mainframe CICS applications. The flexible, modular format lets you take a staged approach, by integrating CICS Configuration Manager into your processes gradually.
- CICS DA provides a centralized, complete model of your CICS infrastructure to improve data discovery. It uses a policy-driven engine to accelerate deployment of new CICS capabilities and line-of-business applications. Model, visualize, and deploy new and existing CICS regions more quickly and easily.
- CICS IA is a dynamic discovery tool that helps to understand the relationships, dependencies, and flows of CICS TS applications, giving the insight to update, modernize, and optimize them with confidence.
- CICS PA is an offline reporting tool that supports all IT processes related to the performance of CICS applications and systems. System programmers, performance analysts and developers can use comprehensive reports and plug-in views. These help to identify and eliminate the causes of online performance issues, tune CICS systems for optimal performance and analyze trends for capacity planning and performance bottlenecks.

- CICS TG for z/OS provides scalable, secure, and standards-based connectivity to CICS TS applications for multiple users. It is the recommended deployment platform for the highest qualities of service for availability, performance, security and transactions.

Trade up

If you have an active S&S contract for a previously purchased IBM product that is also part of a solution pack, then you are eligible to receive Value Unit credit when trading up to a CICS solution pack for z/OS , V5.1. For situations where a trade up path is not defined, contact your IBM representative.

Accessibility by people with disabilities

A U.S. 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

The following features support use by people with disabilities:

- Operation by keyboard alone
- Optional font enlargement and high-contrast display settings
- Suitability for use by people with hearing impairment
- Capability to use with screen readers and magnifiers for those with visual impairment

Softcopy documentation for the product is provided in PDF format. This documentation supports optional font enlargement and high-contrast display settings, and may be operated by the keyboard alone.

Section 508 of the US Rehabilitation Act

CICS Optimization Solution Pack for z/OS , V5.1 and CICS Modernization Solution Pack for z/OS , V5.1 are capable as of October 25, 2013, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Value Unit-based pricing

Value Unit pricing for eligible IBM System z® IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Because 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://www.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 unrelentingly competitive economic environment has driven many enterprises to increase their business agility, by transforming their CICS-based critical information systems using Service Oriented Architecture (SOA) strategies, and web service, Web 2.0, and mobile technologies. Rather than satisfying demand, increased agility and almost ubiquitous access has actually increased demand from mobile and other internet-connected devices, social networks, and other sources.

The same economic pressures also force IT managers, CICS system programmers, and application developers to develop and deploy new business applications more rapidly, and also operate their systems at peak level, all while maintaining service level commitments and meeting regulatory and corporate governance requirements.

Such businesses need tools to help them develop and test applications more effectively, avoid outages and reduce downtime, while improving performance, controlling costs, and complying with standards.

The CICS Tools solution packs address both of these business issues. The CICS Optimization Solution Pack helps IT to optimize the applications, systems, and processes. The CICS Modernization Solution Pack helps the modern business by enabling the agility they require.

The CICS Tools solution packs are members of the CICS Tools family, which in turn is part of the greater IBM z/OS tools portfolio which supports the CICS environment, Problem Determination tools, Rational® development and test tools, DB2 and IMS™ data management tools, and Tivoli® management products. CICS Explorer and CICS Tools, along with many z/OS tools are based on, or integrate with, IBM Explorer for z/OS . They allow you to create a powerful, multi-discipline workbench from the common repository of compatible plug-ins.

CICS Tools can help customers who wish to implement development operations concepts, by improving collaboration between the various roles involved in making and tracking changes, and enabling tighter and more transparent control over CICS administration. These are critical for the smooth operation of CICS and can also help speed up the overall end-to-end development effort for new and changed applications.

CICS Tools V5.1 support all current releases of CICS TS, and exploit, and extend the latest capabilities of CICS TS V5.1, and help to deliver an integrated solution for all technical roles in an enterprise.

The combination of high functionality and flexibility, coupled with a commitment to support the latest release of CICS TS, make CICS Tools an outstanding solution.

The CICS Tools solution packs are positioned as a **convenient** and **affordable** way to purchase key products in the CICS Tools family:

- Convenient. Allow you to purchase multiple products under a single PID can help to simplify customer procurement processes.
- Affordable. The solution pack price represents a reduction in the aggregate price of the individual component products, and is subject to any discounts already available to the customer. When trading up, customers with active Subscription and Support (S&S) contracts can receive Value Unit credit for prior purchases.

For a trial of any of the CICS Tools, contact your IBM representative.

For more details on the CICS Tools family, visit

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

For more details on the CICS TG family, visit

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

For more details on IBM System z software, visit

<http://www.ibm.com/software/os/systemz/infra>

Integration with CICS Explorer and IBM Explorer for z/OS

CICS Explorer provides a unified user interface for development, management, and operational capabilities delivered by the CICS runtime and add-on tools. The CICS Tools plug-ins for CICS Explorer not only enable their rich capability to be used within a common tool framework, but also enables rich integration between the tools and runtime plug-ins.

IBM Explorer for z/OS (z/OS Explorer) is an Eclipse-based integration platform for z/OS users that enables the integration of a variety of offerings from IBM , vendors, or in-house development plug-ins. The capabilities of z/OS Explorer, V2.1, that were previously delivered as part of CICS Explorer , are now available for use by all customers with a license for a supported release of z/OS .

IBM products that support CICS Explorer and z/OS Explorer are:

- CICS TS
- CICS CM
- CICS DA
- CICS IA
- CICS PA
- CICS TG for z/OS , and CICS TG for Multiplatforms
- CICS VSAM Transparency for z/OS (CICS VT)²
- IBM Application Performance Analyzer for z/OS
- IBM Data Studio
- IBM Debug Tool for z/OS
- IBM Fault Analyzer for z/OS
- IBM File Manager for z/OS
- Problem Determination Tools Studio
- Rational Developer for System z

- Rational Team Concert™
- IBM Session Manager for z/OS (IBM SM)
- WebSphere MQ Explorer
- IBM Workload Simulator for z/OS
- IMS Enterprise Suite Explorer for Development

2 Using CICS SupportPac CS1V

Reference information

For information on CICS TS, V5.1, refer to Software Announcement [212-325](#), dated October 3, 2012.

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

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

For information on Problem Determination solution packs, refer to Software Announcement [213-344](#), dated October 22, 2013.

Program number

Program number	VRM	Program name
5655-CD1	5.1.0	CICS Optimization Solution Pack for z/OS
5655-CD2	1.1.0	CICS Optimization Solution Pack for z/OS S&S
5655-CD3	5.1.0	CICS Modernization Solution Pack for z/OS
5655-CD4	1.1.0	CICS Modernization Solution Pack for z/OS S&S

Product identification number

Program PID number	Subscription and Support PID number
5655-CD1	5655-CD2
5655-CD3	5655-CD4

Offering Information

Product information is available via the Offering Information website

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

Publications

The following publications are provided for download from the IBM Publications Center, free of charge:

Title	Order number
CICS Optimization Solution Pack for z/OS, V5.1 - Datasheet	GI13-3337

CICS Modernization Solution Pack for z/OS, V5.1 - Datasheet	GI13-3336
CICS Optimization Solution Pack for z/OS, V5.1 - Program Directory	GI13-3334
CICS Modernization Solution Pack for z/OS, V5.1 - Program Directory	GI13-3333

For more information about the IBM Publications Center, visit

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

Note: The IBM Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available in various file formats, and they can all be downloaded by all countries, free of charge.

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=213-487>

Technical information

Specified operating environment

Hardware requirements

The CICS Tools for z/OS , V5.1 products run on any S/390 or IBM eServer zSeries machine on which the applicable operating system and software will run.

Software requirements

For details of system requirements for CICS Tools products, visit

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

For details of system requirements for CICS TG products, visit

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

For details of system requirements for CICS Explorer , visit

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

Refer to the *System requirements* tab for more details.

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.

Planning information

Packaging

The CICS Optimization Solution Pack for z/OS , V5.1 and CICS Modernization Solution Pack for z/OS , V5.1 products are shipped via CBPDO or other customized offerings, on 3590 tape.

Also shipped are:

- CICS Optimization Solution Pack for z/OS , V5.1: License Information CD (GC34-2970)
- CICS Modernization Solution Pack for z/OS , V5.1: License Information CD (GC34-2969)

Security, auditability, and control

The CICS Optimization Solution Pack for z/OS , V5.1 and CICS Modernization Solution Pack for z/OS , V5.1 products use the security and auditability features of the operating system under which they are running.

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

Ordering z/OS through the Internet

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

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

Charge metric

Program name	PID number	Charge metric
CICS Optimization Solution Pack for z/OS, v5.1	5655-CD1	Per Value Unit
CICS Optimization Solution Pack for z/OS - Software Subscription and Support	5655-CD2	Per Value Unit
CICS Modernization Solution Pack for z/OS, v5.1	5655-CD3	Per Value Unit
CICS Modernization Solution Pack for z/OS - Software Subscription and Support	5655-CD4	Per Value Unit

The programs in this announcement all have Value Unit-based pricing.

Program number	Program name	Value Unit exhibit
5655-CD1	CICS Optimization Solution Pack for z/OS, v5.1	VUE007
5655-CD3	CICS Modernization Solution Pack for z/OS, v5.1	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.

Basic license

On/Off CoD

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

Program name: CICS Optimization Solution Pack for z/OS, V5.1
Program PID: 5655-CD1

Entitlement identifier	Description	License option/Pricing metric
S017CZB	CICS Optimization Solution Pack for z/OS, V5.1	Basic OTC, Per MSU-day TUC

Program name: CICS Modernization Solution Pack for z/OS, V5.1
Program PID: 5655-CD3

Entitlement identifier	Description	License option/Pricing metric
S017CZR	CICS Modernization Solution Pack for z/OS, V5.1	Basic OTC, Per MSU-day TUC

Translation from MSUs to Value Units

	MSUs	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

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: CICS Optimization Solution Pack for z/OS, V5.1
Program PID: 5655-CD1

Entitlement identifier	Description	License option/Pricing metric
S017CZB	CICS Optimization Solution Pack for z/OS, V5.1	OTC, Value Units
S017CZB	CICS Optimization Solution Pack for z/OS, V5.1 Trade up from 5697-CIC (CICS CM) Trade up from 5655-Y29 (CICS DA) Trade up from 5655-Y22 (CICS IA) Trade up from 5655-Y23 (CICS PA)	Basic OTC, Value Units

Orderable supply ID	Language	Distribution medium
S017CZ9	English	3590 tape

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

Program name: CICS Modernization Solution Pack for z/OS, V5.1
Program PID: 5655-CD3

Entitlement identifier	Description	License option/Pricing metric
S017CZR	CICS Modernization Solution Pack for z/OS, V5.11	Basic OTC, Value Units
S017CZR	CICS Modernization Solution Pack for z/OS, V5.11 Trade up from 5655-Y22 (CICS IA) Trade up from 5655-Y29 (CICS DA) Trade up from 5655-Y20 (CICS TG for z/OS)	Basic OTC, Value Units

Orderable supply ID	Language	Distribution medium
S017CZN	English	3590 tape

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

Subscription and Support PID: 5655-CD4

Entitlement identifier	Description	License option/Pricing metric
S017CZT	CICS Modernization Solution Pack for z/OS - Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Orderable supply ID	Language	Distribution medium
S017CZS	English	Hardcopy publication

Subscription and Support

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.

Customized Offerings

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

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

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

- 3590
- 3592

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

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

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

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

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

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for 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. 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 Optimization Solution Pack for z/OS , V5.1: L-ACRR-9ASGP6

CICS Modernization Solution Pack for z/OS , V5.1: L-ACRR-9ASGWF

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>

Trade-in terms for CICS Tools solution packs

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

Limited warranty applies

Yes

Limited warranty

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

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

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

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

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

Software Subscription and Support 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 (Software Maintenance) 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

Other support

SoftwareXcel

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

Sub-capacity terms and conditions

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

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

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

Full-capacity mainframes

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

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

For more information on mainframe MSU-rated capacities, visit

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

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

Sub-capacity mainframes

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

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

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

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

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

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

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

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

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

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

Sub-capacity eligibility

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

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

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

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

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

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

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

Sub-capacity utilization determination

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

On/Off Capacity on Demand (CoD)

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

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Program name: CICS Optimization Solution Pack for z/OS, V5.1
Program PID: 5655-CD1

Entitlement identifier	Description	License option/Pricing metric
S017CZB	CICS Optimization Solution Pack for z/OS, V5.1	Basic OTC, Value Units
S017CZB	CICS Optimization Solution Pack for z/OS, V5.1	Basic OTC, per MSU-day TUC
S017CZB	CICS optimization Solution Pack for z/OS, V5.1 Trade up from 5697-CIC (CICS CM) Trade up from 5655-Y29 (CICS DA) Trade up from 5655-Y22 (CICS IA) Trade up from 5655-Y23 (CICS PA)	Basic OTC, Value Units

Subscription and Support PID: 5655-CD2

Entitlement identifier	Description	License option/Pricing metric
S017CZF	CICS Optimization Solution Pack for z/OS - Subscription and Support	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Program name: CICS Modernization Solution Pack for z/OS, V5.1
Program PID: 5655-CD3

Entitlement identifier	Description	License option/Pricing metric
S017CZR	CICS Modernization Solution Pack for z/OS, V5.1	Basic OTC, Value Units
S017CZR	CICS Modernization Solution Pack for z/OS, V5.1	Basic OTC, per MSU-day TUC
S017CZR	CICS Modernization Solution Pack for z/OS, V5.1 Trade up from 5655-Y22 (CICS IA) Trade up from 5655-Y29 (CICS DA) Trade up from 5655-Y20 (CICS TG for z/OS)	Basic OTC, Value Units

Subscription and Support PID: 5655-CD4

Entitlement identifier	Description	License option/Pricing metric
S017CZT	CICS Modernization Solution Pack for z/OS - Subscription and Support	Basic ASC, Value Units SW S&S No charge, decline SW S&S Per MSU SW S&S Registration

Contact your IBM representative for the applicable charges.

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner for Software Value Plus. Additional information is also available at

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

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