IBM CICS Configuration Manager for z/OS, V5.4 delivers new capabilities and also support and exploitation of new resources in CICS Transaction Server for z/OS, V5.4

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Overview

IBM^(R) CICS^(R) Transaction Server for z/OS^(R) (CICS TS) evolved to become the world's most powerful mixed language application server. In support of CICS TS, CICS Configuration Manager (CICS CM) continues to provide, at general availability, support and management of new resource definitions in CICS TS V5.4.

CICS CM, in conjunction with the other tools in the CICS Tools portfolio, helps to improve operational efficiency and service agility. Development, systems, and operational teams can adopt a collaborative DevOps approach when building and deploying CICS applications and infrastructure. With CICS TS V5.4 and CICS Tools, it is quicker and easier to build, deploy, and manage powerful mixed language applications.

CICS CM V5.4 delivers the following new set of capabilities:

- Support for CICS resource definition and application artifacts stored in z/OS File System (zFS) hierarchical file system.
- Journaling of CICS resource definition changes that are made by using the Resource management utility DFHCSDUP (See RFE 82552).
- Enable ADD and DELETE Commands be added to a DFHCSDUP format export File (See RFE 79646).
- Inhibit connection input on the CICS CM ISPF Main Menu.
- Comply with DASD Extended Address Volumes.
- Improve SSL connect error messages.

New features of CICS CM V5.4 help clients to realize the benefits of modernizing CICS applications to use new capabilities delivered in recent releases of CICS TS V5. Many other enhancements in CICS CM V5.4 offer increased value to clients with earlier releases of CICS TS.

Key prerequisites

CICS CM V5.4 runs on any hardware on which the applicable operating system and software will run. For additional details, see the Hardware requirements and Software requirements sections.

Planned availability date

December 15, 2017

Description

CICS CM enables CICS users to create an effective DevOps pipeline by enabling them to automate their deployment process and act on the outcomes of their process flow. This capability is significantly increased in CICS CM V5.4, with the ability to manage resource definition and other CICS artifacts stored on zFS files and directories.

In addition, CICS CM V5.4 provides the ability to journal configuration changes that are made by using non-CICS CM interfaces. This enables CICS users who want to continue using CICS interfaces, such as the CICS DFHCSDUP utility, to implement CICS CM auditing and back-out capabilities with minimal or no disruption to existing processes.

CICS CM V5.4 also provides support for new and changed resource definitions in CICS TS V5.4, such as the new MQMONITOR resource definitions.

Many CICS CM users prepare and condition CICS resource definitions (on their development LPAR) into change packages for delivery. They then transfer these for deployment onto other LPARs. However, the remote LPARs do not have CICS CM deployed. Therefore, instead of exporting the changes using the CICS CM internal format, their implementation uses the CICS CM export function to build export files in DFHCSDUP format for transfer and subsequent use.

The CICS CM export function implementation works well, with the exception that commands to DELETE unwanted definitions and ADD (or REMOVE) a Group in a List are not supported. This is because the command data is stored along with change package control information in export files in CICS CM format, whereas DFHCSDUP files have no provision for change packages. CICS CM V5.3 APAR PI62341 and CICS CM V5.4 addresses this client requirement.

The CICS Optimization Solution Pack for z/OS is updated to Version 5.4. It includes:

- CICS CM V5.4
- CICS Performance Analyzer for z/OS (CICS PA) V5.4
- CICS Deployment Assistant for z/OS (CICS DA) V5.3
- CICS Interdependency Analyzer for z/OS (CICSIA^(R)) V5.3

The CICS Modernization Solution Pack for z/OS is not updated, and remains available at Version 5.3.

APAR and PTF updates to CICS CM V5.4 from the previous release

APAR and PTF	Description
PI56523	Create API command fails RC=16 RSN=0035 (service routine failure) when the XML elements specify CSD
PI58463	Resource install fails RC=08 RSN=006F if remote CSD is an alias
PI58794	CCV5445E URIMAP maps the same URI as another URIMAP, improperly issued
PI59058	Batch CCVBMAIN RC=0 Server CCV5214E Severe error CCVAMG40
PI62341	Enhance change package migrate processing
PI64491	RC=00 instead of RC=08 delete API for a non-existing change package

APAR and PTF	Description
PI66171	Migrate with STOPALL ignores some commands
PI66556	Additional security exit parameter data
PI70619	ABEND AWBM CCVWSDSH define process RESP=108 (X'6C' PROCESSERR) EIBRESP2=02 (Process name already in use)
PI72551	CCVBMAIN ABEND S0C4
PI72751	CCVPPKH1 does not display date and time in milliseconds
PI75192	Transformation rules for port numbers associated with a TCPIPSERVICE or IPCONN do not work
PI77039	Migrate fails RC=12 RSN=00170023 (Module CCVAMG20, illogical state)

Requests for Enhancement (RFE) user requirements satisfied in CICS CM V5.4

The following IBM Request For Enhancement requests are satisfied by this announcement. Clients can see further details of these requests, or submit their own enhancement requests, by visiting the following web page and selecting the IBM WebSphere[R] brand and then the relevant product.

RFE number	Description
79646	ADD, DELETE Commands be added Export File Formats
82552	CICS CM should provide audit trail for resource definition changes made using DFHCSDUP and CEDA

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT), containing details about accessibility compliance, can be found on the IBM Accessibility website.

Section 508 of the US Rehabilitation Act

CICS CM V5.4 is capable, as of December 15, 2017, 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 US Section 508 Voluntary Product Accessibility Template (VPAT) can be found on the IBM Accessibility website.

Value Unit-based pricing

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

For each IBM 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, go to the IBM System z$^{(R)}$ Software Pricing website.

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

To determine the required license capacity for the IBM Z IPLA program you selected, see the Terms and conditions section.

Reference information

For information on CICS TS V5.4, see Software Announcement 217-113, dated May 16, 2017.

For information on IBM Explorer for z/OS, V3.0, see Software Announcement 215-373, dated October 5, 2015.

For information on Multi-Version Measurement, that replaces Single Version Charging (as applicable to CICS TS Developer Trial), see Software Announcement 217-093, dated February 14, 2017.

Program number

Program number	VRM	Program name
5697-CIC	5.4.0	CICS Configuration Manager for z/OS
5697-I79	1.1.0	CICS Configuration Manager for z/OS S&S
5655-CD1	5.4.0	CICS Optimization Solution Pack for z/OS
5655-CD2	1.1.0	CICS Optimization Solution Pack for z/OS S&S

Product identification number

Program PID number	Subscription and Support PID number
5697-CIC	5697-I79
5655-CD1	5655-CD2

Offering Information

Product information is available on the IBM Offering Information website.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to BP Attachment for Announcement Letter 217-333 for this announcement. A PartnerWorld ID and password are required (use IBMid).

Publications

CICS CM V5.4 product documentation is provided for use by using three separate approaches.

- Online documentation for CICS CM V5.4 is hosted in IBM Knowledge Center, which provides integrated tools for finding, filtering, customizing, saving, and sharing information. Documentation for CICS CM V5.4 in IBM Knowledge Center is refreshed regularly to reflect feedback from users, and to include changes that result from IBM service.
- Offline information, by using IBM Knowledge Center for CICS products. Use versions of IBM Knowledge Center on Microsoft™ Windows™, AIX®, Linux®, zLinux, and z/OS operating systems:
  - For Microsoft Windows, AIX, Linux, and zLinux. *IBM Knowledge Center for CICS* (GC34-7459) is a framework that is downloaded to a local system. Load the framework with the documentation for CICS Tools. Frameworks are available for Microsoft Windows, AIX, Linux, and under IBM WebSphere® Application Server Liberty Profile for Microsoft Windows, AIX, Linux, and zLinux. These frameworks are provided on a single DVD that is available from IBM Shopz (with catalogue number GC34-7459). The documentation for CICS Tools that is loaded into the framework is available for download, direct from IBM.
  - For IBM z®/OS. IBM z/OS V2R2 contains a base element of *IBM Knowledge Center for z/OS.* If clients have this level of z/OS, they can use the z/OS Softcopy Librarian feature to load CICS CM V5.4 documentation into IBM Knowledge Center for z/OS.

    See the z/OS 2.2 product documentation ("Installing, Managing, and Using the Online Library") for details about how IBM Knowledge Center for z/OS works, and how to load the latest CICS Tools documentation into it.

    Note: The contents of IBM Knowledge Center for z/OS are refreshed on a quarterly schedule that is independent of product releases. As a result, the documentation in this format for CICS CM V5.4 will not be available on general availability, but will be added in a subsequent refresh.
- PDF documentation for *CICS CM for z/OS V5.4 User's Guide,* (SC34-7472), is provided for download in PDF format from IBM Publications Center.

Other publications

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

Title	Order number
Program Directory	GI13-4410
Data Sheet	GI13-4411

National language versions

Some documentation is translated into languages other than English. For more information, see the IBM Publications Center.

Services

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, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Hardware requirements

CICS CM V5.4 runs on any hardware on which the applicable operating system and software runs.

Requirements for CICS Explorer[(R)] are made available for reference, online.

Software requirements

CICS CM V5.4 has the following minimum requirements for prerequisite software products:

- IBM z/OS V2.1 (5650-ZOS)
- IBM z/OS V2.1 DFSORT feature, or an equivalent sort product

Further details of system requirements for CICS CM V5.4 are available online.

Planning information

Packaging

CICS CM V5.4 is shipped by using CBPDO or other customized offerings, on 3590 tape.

The following DVDs are also shipped with CICS CM V5.4:
- CICS CM V5.4 License Information - DVD (GC34-7471)
- IBM Knowledge Center for CICS (local install for Microsoft Windows, AIX, and Linux) - DVD (GC34-7459)
- IBM Knowledge Center for CICS (local install) License Information - DVD (GC34-7460)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which 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 CM V5.4 uses the security and auditability features of the operating system under which it is running.

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

Ordering information

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

Program number	Program name	Value Unit Exhibit
5697-CIC	CICS CM V5.4	VUE007
5655-CD1	CICS Optimization Solution Pack for z/OS, V5.4	VUE007

For each IBM 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.** A client's required license capacity is based upon the following factors:

- The IBM Z IPLA program they select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether their current mainframes are full-capacity or sub-capacity

Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.20

Ordering example

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

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

Tier	MSUs	Multiplied by Value Units per MSU	Equal Value Units
Base	3	1.00	3.00
Tier A	42	.45	18.90
Tier B	130	.36	46.80
Tier C	140	.27	37.80
Tier D	1,185	.20	237.00
Total	1,500		343.50

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

Ordering z/OS through the internet

Shopz 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). For more details and availability, go to the Shopz website.

Charge metric

Program name	PID number	Charge metric
CICS CM V5.4	5697-CIC	Per Value Unit
CICS CM - Software Subscription & Support	5697-I79	Per Value Unit
CICS Optimization Solution Pack for z/OS, V5.4	5655-CD1	Per Value Unit
CICS Optimization Solution Pack for z/OS- Software Subscription & Support	5655-CD2	Per Value Unit

Per Value Unit

Basic license

On/Off CoD

CICS CM V5.4 is eligible for On/Off CoD with a temporary use charge, calculated based on MSUs per-day usage.

Program name: CICS CM V5.4

Program PID: 5697-CIC

Entitlement ID	Description	License option/Pricing metric
S0172DR	CICS CM V5.4	Basic OTC, Per MSU-day TUC

Program name: CICS Optimization Solution Pack for z/OS, V5.4

Program PID: 5655-CD1

Entitlement ID	Description	License option/Pricing metric
S017CZB	CICS Optimization Solution Pack for z/OS, V5.4	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 CM V5.4

Program PID: 5697-CIC

Entitlement ID	Description	License option/Pricing metric
S0172DR	CICS CM V5.4	Basic OTC, Value Units, MultiVersion Measurement No Charge

Orderable Supply ID	Language	Distribution Medium
S0172DP	English	3590 tape

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

Subscription and Support PID: 5697-I79

Entitlement ID	Description	License option/Pricing metric
S011CNX	CICS CM Subscription and Support	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S Registration, MultiVersion Measurement S&S No Charge

Orderable Supply ID	Language	Distribution Medium
S011CR1	English	Hardcopy publication

Program name: CICS Optimization Solution Pack for z/OS, V5.4

Program PID: 5655-CD1

Entitlement ID	Description	License option/Pricing metric
S017CZB	CICS Optimization Solution Pack for z/OS, V5.4	Basic OTC, Value Units, Multi-Version Measurement No Charge
	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)	

Orderable Supply ID	Language	Distribution Medium
S017CZ9	English	3590 tape

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

Subscription and Support PID: 5655-CD2

Entitlement ID	Description	License option/Pricing metric
S017CZF	CICS Optimization 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, Multi-Version Measurement S&S No Charge

Orderable Supply ID	Language	Distribution Medium
S017CZD	English	Hardcopy publications

Subscription and Support

To receive voice technical support using 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 using 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 using 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$^{(R)}$ and IBM 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 through CBPDO and ServerPac. These customized offerings are offered for internet delivery in countries where Shopz product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, go to the Help section on the Shopz website.

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

- 3590
- 3592

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

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

For additional information about the Product ServerPac option, see Software Announcement 212-272, dated July 31, 2012.

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

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin four 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$^{(R)}$ 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.

This program is 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. This program has a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.IBM z Systems Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

License number	Program name
L-APIG-AN2HFA	IBM CICS Configuration Manager for z/OS V5.4
L-ACRR-APEC6M	IBM CICS Optimization Solution Pack for z/OS, V5.4

The programs' License Information documents will be available for review on the IBM Software License Agreement website.

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 CICS 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, see the IBM Software 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 version or release will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

For additional information on the IBM Software Support Lifecycle Policy, see the IBM Software Support Lifecycle Policy website.

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

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

• Defect correction information, a restriction, or a bypass.

• Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the program and documentation.

• Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the IBM Software 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.
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

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, go to the Supported product list website.

IBM Operational Support Services - SoftwareXcel

Yes

Other support

SoftwareXcel

Variable charges apply

No

Educational allowance available

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

Multi-Version Measurement

Multi-Version Measurement (MVM) replaces the previously announced Migration Grace Period time limit of six months and allows unlimited time for clients to run more than one eligible version of a software program. Clients may run multiple versions of a program simultaneously for an unlimited duration during a program version upgrade. Clients may also choose to run multiple versions of a program simultaneously for an unlimited duration in a production environment. MVM does not extend support dates for programs withdrawn from service.

For more information about MVM, including requirements for qualification, see the MVM web page. For a list of eligible programs, see the IPLA Execution-based web page.

For each IBM 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. Required license capacity is based upon the following factors:

- The IBM Z IPLA program a client selects
- The applicable Value Unit Exhibit
- The applicable terms
- Whether client's current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the IBM Z IPLA program client selects, see the Ordering information section.

Program number	Program name	Terms	Parent, if applicable
5697-CIC	CICS CM V5.4	Reference-based	5655-Y04
5655-CD1	CICS Optimization Solution Pack for z/OS, V5.4	Reference-based	5655-Y04

Full-capacity mainframes

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

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

More information on mainframe MSU-rated capacities is available, online.

Reference-based: The required license capacity of an IBM 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 an IBM Z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the IBM Z IPLA program executes.

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

Reference-based: The required license capacity of an IBM 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 an IBM Z IPLA program with full machine-based terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

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

For additional information for products with reference-based terms, IBM 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 IBM 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 IBM Z IPLA program with referenced-based terms, each environment should be assessed separately.

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

- All instances of the OS/390[R] operating system must be upgraded 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[R] (64-bit) mode.

For that machine, the client 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 IBM z Systems Software Pricing website.

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

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

Additionally, client must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for IBM z Systems z9[R] and z Systems Programs Sub-Capacity Pricing* (Z125-6929)Once the amendment is signed, the terms in the amendment replace any and all previous IBM 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 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 z Systems 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 intrusion 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 regulatory compliant, 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 any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

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Prices

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For that machine, the client 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 IBM z Systems Software Pricing website.

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