



IBM CPLEX Optimizer for z/OS V12.5 delivers performance improvements

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At a glance

IBM® CPLEX® Optimizer for z/OS® V12.5 enhancements:

- Improves productivity of optimization-based decision support systems through improved performance solving mixed integer programs
- Contains new capabilities for problems with quadratic constraints

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

IBM CPLEX Optimizer for z/OS V12.5 provides improved performance compared to previous releases.

The standard in optimization software, technology, and solutions, IBM CPLEX Optimizer for z/OS V12.5 provides flexible, high-performance mathematical programming solvers for linear programming, mixed integer programming, quadratic programming, and quadratically constrained programming problems. CPLEX Optimizer for z/OS includes interfaces in the C and C++ programming languages.

Key prerequisites

Refer to the [Technical information](#) section.

Planned availability date

- April 26, 2013

Description

IBM Optimization products and solutions have broad applicability to a multitude of challenges in nearly every industry. They help organizations quickly determine how to most effectively allocate limited resources and to automatically balance

tradeoffs and business constraints. They also help organizations achieve maximum operational efficiency and improved profitability.

IBM Optimization delivers return on investment (ROI) through effective analytical, decision-support solutions. IBM Optimization products and solutions support decision-making processes in situations where complexity and urgency limit the ability of human beings to consider multiple tradeoffs. You can use IBM Optimization products to help implement better decisions faster by focusing your attention on critical complexities rather than on routine matters. Key enhancements in IBM CPLEX Optimizer for z/OS V12.5:

- Improved performance in solving mixed integer programs
 - Improvement in the time to solve problems to optimality
 - Improvement in the time to obtain a first solution
- New capabilities for quadratic problems
 - Dual values are now supported for all problems with convex quadratic constraints. In the previous version, dual values were supported only for problems with quadratic constraints in the form of second-order cone constraints. This enhancement allows sensitivity analysis on a wider range of problems.

Accessibility by people with disabilities

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

http://www.ibm.com/able/product_accessibility/index.html

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=213-189>

Reference information

Refer to Software Announcement [212-108](#), dated April 10, 2012 .

Program number

Program number	VRM	Program name
5655-Y21	12.5	IBM CPLEX Optimizer for z/OS

Product identification number

Program PID number	Subscription and Support PID number
5655-Y21	5655-Y25

Offering Information

Product information is available via the Offering Information website

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

Publications

Product documentation is included with the product license and can be accessed, on the planned availability date, at

<http://pic.dhe.ibm.com/infocenter/cplexzos/v12r5/index.jsp>

Other publications, including the Program Directory, can be downloaded from the IBM Publications Center

<http://www-05.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

To find a publication, select a country, and then select Search for publications.

Technical information

Specified operating environment

Hardware requirements

IBM System z10®, IBM zEnterprise® 196, IBM zEnterprise EC12, or an equivalent hardware system

Software requirements

- IBM z/OS V1.12, or later
- Compiler: IBM z/OS XL C/C++ V1R12, or later

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a README file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Planning information

Direct customer support

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

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

Packaging

IBM CPLEX Optimizer for z/OS is shipped via Customized Offerings on 3590 1/2-inch tape cartridge. Also included in the package are:

- Program Directory (GI11-9604)
- License Information Booklet (GC34-2732)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

IBM CPLEX Optimizer for z/OS uses the security and audit features of the operating system that the product runs on. 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>

Program name: IBM CPLEX Optimizer for z/OS V12.5
Program PID: 5655-Y21

Charge metric

Note: Version 12.5 does not introduce new program numbers or new charge metrics.

Program name	PID number	Charge metric
IBM CPLEX Optimizer for z/OS	5655-Y21	Per Value Unit
IBM CPLEX Optimizer for z/OS S&S	5655-Y25	Per Value Unit

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

Program number	Program name	Value Unit exhibit
5655-Y21	IBM CPLEX Optimizer for z/OS	VUE007
5655-Y25	IBM CPLEX Optimizer for z/OS S&S	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

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: IBM CPLEX Optimizer for z/OS V12.5
Program PID: 5655-Y21

Entitlement identifier	Description	License option/ Pricing metric
S016ZPM	IBM CPLEX Optimizer for z/OS	Basic OTC, per value unit Basic OTC, per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S016ZPL	US English	3590 Tape

Program name: IBM CPLEX Optimizer for z/OS Subscription and Support
Program PID: 5655-Y25

Entitlement identifier	Description	License option/ Pricing metric
S016ZPR	IBM CPLEX Optimizer for z/OS S&S	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
S016ZPP	US English	Hardcopy pub

On/Off CoD

IBM CPLEX Optimizer for z/OS V12.5 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name IBM CPLEX Optimizer for z/OS V12.5
Program PID 5655-Y21

Entitlement identifier	Description	License option/ Pricing metric
S016ZPM	IBM CPLEX Optimizer for z/OS	Basic OTC, Per MSU-day TUC

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 following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

These programs are licensed under the International 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

L-AFOS-8PJF5C.

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

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

Limited warranty applies

Yes

Limited warranty

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

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

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

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

Program 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.

Other terms

Volume orders (IVO)

No

IBM International Passport Advantage Agreement

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

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 utilization determination

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

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.

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Program PID: 5655-Y21

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S016ZPL US English 3590 Tape

Program name: IBM CPLEX Optimizer for z/OS
Subscription and Support
Program PID: 5655-Y25

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Orderable supply ID	Language	Distribution medium
S016ZPP	US English	Hardcopy pub

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For IBM Business Partner: pwswna@us.ibm.com

Mail: IBM Teleweb Customer Support
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3500 Steeles Ave. East, Tower 3/4
Markham, Ontario
Canada L3R 2Z1

Reference: LE001

The Americas Call Centers, IBM's national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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<http://www.ibm.com/planetwide/us/>