IBM ILOG CPLEX Optimization Studio V12.6 delivers new modeling features and faster solution times that help improve modeling productivity and solution deployment in decision optimization applications.

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At a glance

IBM® ILOG® CPLEX® Optimization Studio V12.6 includes enhancements to:

- Performance of optimizers
- Capability of optimizers
- User experience
- Licensing options

Overview

IBM ILOG CPLEX Optimization Studio V12.6 offers enhancements to optimize performance and improve modeling productivity. These enhancements enable better representation and solution of business problems than previous versions in decision optimization applications, which may help organizations achieve improved operational efficiency and profitability.

Version 12.6 delivers:

- Improved solution times on difficult mixed-integer problems
- Improved solution times on scheduling problems
- A new algorithm to provide a global optimum for problems with non-convex quadratic objectives
- A new algorithm that harnesses compute clusters to solve mixed-integer problems
- Constraints to better model ordering relationships between operations and to easily specify highly combinatorial relationships
- Reorganization of parameters into a functional hierarchy
- Additional capability in the Integrated Development Environment
- New price metrics and structures

Key prerequisites

For details, refer to the Software requirements section.
**Planned availability date**

- December 6, 2013: Electronic availability
- January 6, 2014: Media availability

Refer to the Availability of national languages section for national language availability.

**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 help achieve maximum operational efficiency and improved profitability.

IBM Optimization delivers measurable 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. Clients can use IBM Optimization products to help implement better decisions faster by focusing their attention on critical complexities rather than on routine matters.

IBM ILOG CPLEX Optimization Studio offers an integrated modeling toolkit that enables rapid modeling and deployment of analytical optimization problems. It supports end-to-end, mathematical modeling from prototyping through operational deployment. It includes CPLEX Optimizer solvers for mathematical programming and constraint programming that are robust, high-speed, accurate, and reliable. An open architecture facilitates interoperability with other modeling languages, tools, and systems.

IBM ILOG CPLEX Optimization Studio V12.6 provides Operations Research (OR) practitioners, OEMs, and Consultants with solver engines, a modeling language, a set of embedding APIs, and a client-server environment provided by IBM ILOG CPLEX Enterprise Server V12.6.

Key enhancements include:

- Improved performance in both CPLEX Optimizer and CP Optimizer
  - The ability to solve problems to optimality has been improved for difficult mixed-integer programs.
  - The ability to solve problems to optimality and provide quality solutions quickly has been enhanced for difficult scheduling problems.

**Capability of optimizers**

- A new algorithm provides a global optimum to problems with non-convex quadratic objectives.
- The ability to distribute work of the mixed-integer optimizer across a number of computers can result in faster solution times.
- A new modeling feature allows the user to strengthen domain reduction on decision variables in constraint programs.
- A new scheduling constraint ensures that related operations in two different sequences are carried out in the same order.

**User experience and other capabilities**

- A facility to write a constraint programming model, including its data, to a file, providing a simple way to package a model instance for support requests
- Ability to view LP format files in the Integrated Development Environment to aid in debugging model formulations
• Reorganization of the CPLEX Optimizer parameters into a functional hierarchy in the APIs

New licensing options
• CPLEX Optimizer Deployment Entry Edition by PVU metric
• CPLEX Optimizer Deployment Entry Edition by PVU metric trade-up

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested via the IBM website


Availability of national languages

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Program number

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Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

http://www.ibm.com/services/learning/

Contact your IBM representative for course information.

Offering Information

Product information is available via the Offering Information website
Publications

No publications are shipped with this product.

IBM Publications Center

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

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

Technical information

Specified operating environment

Hardware requirements

Processor

- Intel® Pentium® 4 and above for Microsoft® Windows® and Linux® on System x®
- POWER6® and above for Linux and AIX® on Power®
- Itanium® 2 for HP-UX
- IBM System z10® and above for Linux on System z®

Software requirements


Operating systems

- AIX V6.1, V7.1
- Microsoft Windows 7 SP1
- Microsoft Windows 8
- Microsoft Windows Server 2008 R2 SP1, Windows Server 2012
- Red Hat Enterprise Linux 6
- SUSE Linux Enterprise 11
- Sun Solaris 10, 11
- HP-UX 11i v3
- Mac OS X 10.7

Languages supported

- Java™ 6 and Java 7
- C
- C++
- .NET Framework 4.0 and 4.5
Connectors

- MathWorks MATLAB
- Microsoft Excel 2007 and 2010
- AMPL
- IBM SPSS® Modeler V15

Databases as OPL data sources

- Oracle Database 11g
- DB2® V9
- Microsoft SQL Server 2008 R2
- OLE DB
- ODBC on Windows

Support for Oracle databases does not include support for the Oracle Exadata platform.

**IBM ILOG CPLEX Enterprise Server V12.6**

Operating systems

CPLEX Enterprise Server executes in 64-bit mode and requires a 64-bit edition of the operating system.

- AIX V6.1
- Microsoft Windows Server 2008 R2 SP1
- Red Hat Enterprise Linux 6
- SUSE Linux Enterprise 11

Languages supported - client side

- Java 6

Application servers

- WebSphere® Application Server Community Edition V2.1.1.5
- WebSphere Application Server V7.0, V8.0

Databases to store server jobs

- Oracle Database 11g
- DB2 V9
- Microsoft SQL Server 2008 R2

Support for Oracle databases does not include support for the Oracle Exadata platform.

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**

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport...
Advantage Express®. Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations, worldwide.

IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging
The IBM ILOG product packages comprise:

- Product CD-ROMs, DVDs, or both
- Printed Quick Start Guide

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
IBM ILOG products use the security and auditability features of the host hardware or software.

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

Global Technology Services®
Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings, for the efficient installation, implementation, or integration of this product.

Ordering information
For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit


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

Product information

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IBM ILOG CPLEX Optimizer Single User Edition

IBM ILOG CPLEX Optimizer for Non-Production

Program name                          PID number     Charge unit description
IBM ILOG CPLEX Enterprise Server      5725-A06      Per Processor Value Unit
IBM ILOG CPLEX Optimization Studio Developer Edition 5725-A06 Per Authorized User
IBM ILOG CPLEX Optimizer Deployment Edition 5725-A06 Per Processor Value Unit
IBM ILOG CPLEX Optimizer Deployment Entry Edition 5725-A06 Per Processor Value Unit
IBM ILOG CPLEX Optimizer Single User Edition 5725-A06 Per Client Device
IBM ILOG CPLEX Optimizer for Non-Production 5725-A06 Per Processor Value Unit

Charge metrics definitions

Authorized User

Authorized User is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. The program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User accessing the program in any manner directly or indirectly (for example, via a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

Note: Some programs may be licensed where devices are considered users. In that case, the following applies. Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate user of the program and requires an entitlement as if that device were a person.

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type and model number at the web page below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores.


Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to web page below). If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to
cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/
Counting_Software_licenses_using_s pecific_virtualization_technologies.html

* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes: Some programs may require licenses for the program AND what is being managed. In that case, the following applies: In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.

A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

Client Device

Client Device is the unit of measure by which this program is licensed. A Client Device is a computing device that requests the execution of a set of commands, procedures, or applications from another computer system that is typically referred to as a server. Multiple Client Devices may share access to a common server. A Client Device generally has some processing capability or is programmable to allow a user to do work. A Proof of Entitlement (PoE) must be obtained for each Client Device accessing the program in any manner on each and every single computer or server where the program is installed.

Examples include, but are not limited to, appliances, automated teller machines, cash registers, desktop computers, kiosks, notebook computers, personal digital assistants, point-of-sale terminals, and technical workstations.

Passport Advantage program licenses

IBM ILOG CPLEX Optimization Studio

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IBM ILOG CPLEX Optimization Studio

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**Passport Advantage trade-up licenses**

**IBM ILOG CPLEX Optimization Studio**

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## Passport Advantage customer: Media pack entitlement details

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

### ILOG CPLEX Opti Studio V12.6.0

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## 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 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.

Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).
License Information form numbers

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


Limited warranty applies

Yes

Limited warranty

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

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

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

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

Program technical support

Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Maintenance is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Maintenance also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months’ notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

Money-back guarantee

For clarification, note that 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 the IBM International Passport Advantage Agreement, this term applies only to your first acquisition of the program.

Volume orders (IVO)

No
**Passport Advantage applies**
Yes, and through the Passport Advantage website at

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

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

**Usage restriction**
Yes

Usage is restricted to the level/quantity and type indicated in the Proof of Entitlement (PoE).

For additional information refer to the License Information Document that is available on the IBM Software License Agreement website


**Software Subscription and Support applies**
Yes. Software Subscription and Support is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and technical support are provided by the Software Subscription and Support offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software and Technical Support provides voice and electronic access to IBM support organizations, worldwide.

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

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short-duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your IBM Software Support Handbook at

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

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

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

**System i® Software Maintenance applies**
No

**Educational allowance available**
Education allowance does not apply.

Education software allowance does not apply.
Special education prices are available for qualified customers through Passport Advantage.

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.

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company’s strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa_main", and select "Configure Electronic Service Agent." In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

http://www.ibm.com/support/electronic

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime

The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the “symptoms,” diagnosing the error, and manually calling IBM Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security

The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits
via either the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer’s system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer’s business applications or business data is never transmitted to IBM.

**More accurate reporting**

Since system information and error logs are automatically uploaded to the IBM Support Center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

**Customized support**

Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support website at

http://www.ibm.com/support/electronic

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from their systems, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

http://www.ibm.com/support/electronic

**Prices**

**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

**Business Partner information**

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller/emea/channelannouncement

**Announcement countries**

All European, Middle Eastern, and African countries except:

- Iran
- Libyan Arab Republic
- Syria

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