



# IBM PowerSC Standard and Express Editions help address cloud and virtual data center security issues

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## At a glance

PowerSC provides security and compliance tools to protect data centers and cloud environments virtualized with PowerVM™.

For ordering, contact your IBM® representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

## Overview

PowerSC provides a trusted solution to help you simplify the security and compliance administration for AIX® virtual workloads running on IBM Power Systems™ servers. PowerSC simplifies security compliance and strengthens security by providing trusted system extensions.

PowerSC simplifies security compliance by supplying pre-built system profiles that provide security and compliance automation. This automation enforces compliance to various industry standards such as the Payment Card Industry Data Security Standard, the US Department of Defense Security Technical Implementation Guide, and the COBIT best practices.

PowerSC is a "virtualization aware" offering because it has embedded components in the Power Systems virtualization technology PowerVM. This allows PowerSC to harden security and simplify compliance within virtual workloads.

The PowerSC Express® offering replaces the IBM Compliance Expert (5765-G82). The IBM Compliance Expert offering will now be known as IBM PowerSC Express Edition. The PowerSC Standard offering will be new and contain the Express offering features plus more.

## Key prerequisites

- The latest available AIX or PowerVM and associated offerings running on IBM POWER7® and POWER6® processor-based systems.
- PowerSC Express Security and Compliance profiles for VIOS require Virtual I/O Server V2.2.1, or later.
- The PowerSC Standard Edition Trusted Logging feature and Trusted Network Connect and Patch Management feature both require Virtual I/O Server V2.2.1, or later.

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## Planned availability date

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October 14, 2011

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## Description

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PowerSC Express includes the following features:

- Security Compliance Automation, which assures that the settings in the operating system match security standards that exist in various industry groups such as the Payment Card Industry Data Security Standard. IBM demonstrates to auditors that systems are complying to a specific external security standard.
- An external industry standard supported by PowerSC Express that includes the following:
  - Payment Card Industry Data Security Standard (PCI DSS).
  - US Department of Defense Security Technical Implementation Guide for UNIX™ (DoD STIG) standards and the best practices specified by the Control Objectives for Information and related Technology (COBIT) standard.

Public companies that are subject to the US Sarbanes-Oxley Act of 2002 (SOX) often adopt the COBIT best practices.
  - The ability to simplify security management and compliance measurement. PowerSC Express is used in conjunction with AIX Profile Manager, which allows clients to automatically apply security profiles and generate reports about compliance. This reduces the labor cost involved in configuring and auditing systems that require a particular industry standard like Payment Card Industry, DoD STIG, and SOX/COBIT.

PowerSC Standard Edition includes the following features plus the features in PowerSC Express:

- Trusted Boot assures that an operating system such as AIX running on a Power Systems server has not been inadvertently or maliciously altered to compromise the security of the system. Trusted Boot is a virtual implementation of the Trusted Platform Module (TPM) from the Trusted Computing Group. The PowerSC Trusted Boot feature provides virtual TPM functionality for AIX virtual machines running with the PowerVM hypervisor on Power Systems.
  - The TPM functionality measures the system boot process in each virtual machine, and with cooperation from the AIX Trusted Execution technology, provides security, trust, and assurance of the boot image on disk, the entire operating system, and the application layers. Each virtual machine has its own separate virtual TPM that holds its unique measurement data used to validate the root of trust. This functionality is available on POWER7 systems running Firm Ware 7.4, or higher.
- Trusted Logging provides a central tamperproof repository for the system and audit logs for all the virtual AIX systems running on a Power Systems server. This immutable repository can be used to fulfill audit and compliance requirements because this central repository contains a record of events that have occurred within all the workloads running on a Power Systems server.
- Trusted Network Connect (TNC) and Patch Management in PowerSC can detect AIX virtual machines that do not meet the corporate patch policies that have been established for a virtualized data center. Alerts are triggered if a noncompliant virtual machine is detected. TNC and Patch Management analyzes data from both the Service Update Manager Assistant (SUMA) and the Network Installation Manager (NIM) to check each virtual machine during activation.

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## Statement of support for OpenPTS for AIX with PowerSC

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For those customers with a Software Maintenance Agreement (SWMA) for PowerSC, IBM will provide support for OpenPTS for AIX in accordance with SWMA, only within the context of its use where required by PowerSC.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver an material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

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### Program number

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Program number	VRM	Program name
5765-PSE	1.1.0	IBM PowerSC Standard Edition
5765-G82	1.1.0	IBM PowerSC Express Edition *

\* PID is already announced and this is a replacement of that offering.

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### Product identification numbers

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Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5765-PSE	5660-PSE 5661-PSE	5662-PSE 5663-PSE 5664-PSE
5765-G82*	5660-G82* 5661-G82*	5662-G82* 5663-G82* 5664-G82*

\* PID is already announced and this is a replacement of that offering.

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### Reliability, Availability, and Serviceability (RAS)

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The reliability of the IBM Power Systems starts with components, devices, and subsystems that are designed to be fault-tolerant. Power Systems uses lower-voltage technology in the processor SCMs that improves reliability stacked latches to reduce soft error (SER) susceptibility. During the design and development process, subsystems go through rigorous verification and integration testing processes. During system manufacturing, systems go through a thorough testing process to help ensure high product quality levels.

The processor and memory subsystem contains a number of features designed to avoid or correct environmentally induced, single-bit, intermittent failures as well as handle solid faults in components, including selective redundancy to tolerate certain faults without requiring an outage or parts replacement.

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## Offering Information

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Product information is available via the Offering Information website

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

### **Business Partner information**

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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=211-356>

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## Publications

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The 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 50 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

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## Technical information

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### **Specified operating environment**

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#### **Hardware requirements**

PowerSC Standard offering:

- IBM systems that run the IBM POWER6 and POWER7 processors.
- Trusted Boot requires Firm Ware 7.4.

POWER7 technology-based hardware requires Firm Ware 7.4 to utilize Trusted Boot.

#### **Software requirements**

PowerSC Standard offering:

- AIX 6 (Express, Standard, and Enterprise)
- AIX 7 (Express, Standard, and Enterprise)
- PowerVM V2

PowerSC Standard must be licensed for all active cores on a Power Systems server. When additional cores are activated, clients must purchase the same number of additional PowerSC licenses.

PowerSC Express requirements are not affected by this announcement.

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.

## Limitations

For additional information, refer to the [Usage restrictions](#) section of this announcement, or to the License Information document that is available on the IBM Software License Agreement website

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

## Planning information

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### Packaging

Your Proof of Entitlement (PoE) for this program is a copy of a paid sales receipt, purchase order, invoice, or other sales record from IBM or its authorized reseller from whom you acquired the program, provided that it states the license charge unit (the characteristics of intended use of the program, number of processors, number of users) and quantity acquired.

Information about how you may obtain program services will be provided by the party (either IBM or its authorized reseller) from whom you acquired the program.

### Security, auditability, and control

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

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## Software Services

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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/>

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## Ordering information

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### Charge metric

Program name	Part number or PID number	Charge metric
IBM PowerSC Standard	5765-PSE	Per Processor Core on Small Medium, or Large Server
SW Maintenance Registration/Renewal 1 Year	5660-PSE	Per Processor Core on Small Medium, or Large Server
SW Maintenance After License 1 Year	5661-PSE	Per Processor Core on Small Medium, or Large Server
SW Maintenance Registration 3 Year	5662-PSE	Per Processor Core on Small Medium, or Large Server
SW Maintenance After License 3 Year	5664-PSE	Per Processor Core on Small Medium, or Large Server
IBM PowerSC Express	5765-G82*	Per Processor Core on Small

Medium, or Large Server

SW Maintenance Registration/Renewal 1 Year	5660-G82*	Per Processor Core on Small Medium, or Large Server
SW Maintenance After License 1 Year	5661-G82*	Per Processor Core on Small Medium, or Large Server
SW Maintenance Registration 3 Year	5662-G82*	Per Processor Core on Small Medium, or Large Server
SW Maintenance After License 3 Year	5664-G82*	Per Processor Core on Small Medium, or Large Server

\* PID is already announced and this is a replacement of that offering. There will be no ordering tables for these PIDs because all of this information is already set up in the worldwide ordering and distribution tools.

## Processor

A processor (commonly called a *CPU* or *core*) is the unit of measure by which this program is licensed. It is a functional unit within a computing device that interprets and executes instructions. A processor consists of at least an instruction control unit and one or more arithmetic or logic unit. With multicore technology, each core is considered a processor. A Proof of Entitlement (PoE) must be obtained for the appropriate number of processors based on the level of all processor cores activated and available for use by the program on the server.

Orders may be placed beginning with configurator availability.

For new orders, select from the following table:

IBM PowerSC Standard and Express Editions, V1.1 (5765-PSE, 5765-G82): SWMA PIDs and features support this new offering.

5765-PSE IBM PowerSC Standard Edition

Description	Processor- based OTC feature number
Per processor - small	0001
Per processor - medium	0002
Upgrade small to medium	0003
Per processor - large	0004
Upgrade small to large	0005
Upgrade medium to large	0006

## Software Maintenance

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

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after license feature number.

5660-PSE Software Maintenance Registration, 1 year

Feature description	Feature number
Per processor core on small reg	1731
Per processor core on small reg 7x24	1732
Per processor core on medium reg	1733
Per processor core on medium reg 7x24	1734

Per processor core on large reg	1735
Per processor core on large reg 7x24	1736

5661-PSE Software Maintenance After License, 1 year

Feature description	Feature number
Per processor core on small ALC	0649
Per processor core on medium ALC	0650
Per processor core on large ALC	0651

5662-PSE Software Maintenance Registration, 3 year

Feature description	Feature number
Per processor core on small reg	0933
Per processor core on small reg 7x24	0934
Per processor core on medium reg	0935
Per processor core on medium reg 7x24	0936
Per processor core on large reg	0937
Per processor core on large reg 7x24	0938

5664-PSE Software Maintenance After License, 3 year

Feature description	Feature number
Per processor core on small ALC	0001
Per processor core on medium ALC	0002
Per processor core on large ALC	0003

**System Program Order (SPO):** An order for SPO 5692-A6P is mandatory for shipments of program distribution. The individual licensed program orders are for registration and billing purposes only. No shipment occurs under these orders.

Specify feature number 3435.

Machine-readable materials are only available on CD-ROM. To receive shipment of machine-readable materials the order needs to include SPO 5692-A6P.

The individual licensed program order (for example, 5765-PSE) must still be ordered but will be for registration and billing purposes only and will not result in shipment of materials.

Program number	Program/Function name	Feature number
5692-A6P	IBM PowerSC Standard Edition	2283
5692-A6P	IBM PowerSC Express Edition	2262(1)

<sup>1</sup> Feature is already announced and this is a replacement of that program/function name.

**Basic Machine-Readable Material:** Select one of the following priced feature numbers for media type under 5692-A6P:

Media type	Media feature number	Media process charges feature number
DVD	3435	1100 Media Charge
DVD	3435	1101 Media No-charge

Program number	Description	Feature number
5765-PSE	Branch Office Expedite	3445
5660-PSE	Branch Office Expedite	3445
5661-PSE	Branch Office Expedite	3445
5662-PSE	Branch Office Expedite	3445
5664-PSE	Branch Office Expedite	3445

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## Terms and conditions

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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.

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

### ***Agreement for Acquisition of Software Maintenance***

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) agreement applies for Subscription and Support (also referred to as 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. IBM includes one year of Software Subscription and Support with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. 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.

### ***License Information form numbers***

IBM PowerSC Standard (5765-PSE): LC23-5114-00 LICR L-BBRY-8JCR5B

IBM PowerSC Express (5765-G82): LC23-5075-02 LICR L-BBRY-8JBKWS

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).

### ***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)***

Yes. Contact your IBM representative.

### ***Passport Advantage applies***

No

### ***Usage restrictions***

Yes. For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

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

### ***Software Subscription and Support applies***

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

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, only 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, every day of the year. 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 this agreement.

For more information about the Passport Advantage Agreement, visit the Passport Advantage website at

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

**IBM Operational Support Services -- SoftwareXcel**

No

**System i Software Maintenance applies**

No

**Variable charges apply**

Yes

**Educational allowance available**

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

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## IBM Electronic Services

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

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## Prices

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For additional information and current prices, contact your local IBM representative.

Orders may be placed beginning with configurator availability.

For new orders, select from the following table:

IBM PowerSC Standard and Express Editions, V1.1 (5765-PSE, 5765-G82): SWMA PIDs and features support this new offering.

Description	Processor based OTC feature number	OTC
Per processor - small	0001	
Per processor - medium	0002	
Upgrade small to medium	0003	
Per processor - large	0004	
Upgrade small to large	0005	
Upgrade medium to large	0006	

## Software Maintenance

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

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after-license feature number.

### 5660-PSE Software Maintenance Registration, 1 year

Feature description	Feature number	OTC
Per processor core on small reg	1731	
Per processor core on small reg 7x24	1732	
Per processor core on medium reg	1733	
Per processor core on medium reg 7x24	1734	
Per processor core on large reg	1735	
Per processor core on large reg 7x24	1736	

### 5661-PSE Software Maintenance After License, 1 year

Feature description	Feature number	OTC
Per processor core on small ALC	0649	
Per processor core on medium ALC	0650	
Per processor core on large ALC	0651	

### 5662-PSE Software Maintenance Registration, 3 year

Feature description	Feature number	OTC
Per processor core on small reg	0933	
Per processor core on small reg 7x24	0934	
Per processor core on medium reg	0935	
Per processor core on medium reg 7x24	0936	
Per processor core on large reg	0937	
Per processor core on large reg 7x24	0938	

Feature description	Feature number	OTC
Per processor core on small ALC	0001	
Per processor core on medium ALC	0002	
Per processor core on large ALC	0003	

**Variable charges:** The applicable processor-based one-time charge will be based on the group of the designated machine on which the program is licensed for use. If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

### Pricing terms

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Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-211-356-List\\_prices\\_2011\\_10\\_12.PDF](#)

### IBM Global Financing

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IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

<http://www-03.ibm.com/financing/us/index.html>

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## Order now

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To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)  
Fax: 800-2IBM-FAX (242-6329)  
For IBM representative: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
For IBM Business Partner: [pwswna@us.ibm.com](mailto:pwswna@us.ibm.com)  
Mail: IBM Teleweb Customer Support  
ibm.com® Sales Execution Center, Americas North  
3500 Steeles Ave. East, Tower 3/4  
Markham, Ontario  
Canada  
L3R 2Z1

Reference: YE001

The Americas Call Centers, our 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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For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

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