



IBM Tivoli Monitoring V6.2.3 provides improved scale, additional proactive analytics, and lowered cost of ownership

Table of contents

1 Overview	5 Technical information
2 Key prerequisites	9 Ordering information
2 Planned availability date	12 Terms and conditions
2 Description	23 Prices
3 Program number	23 Order now
4 Publications	

At a glance

IBM® Tivoli® Monitoring V6.2.3 can provide:

- Low cost of ownership - New features automate the maintenance and support of IBM Tivoli Monitoring-based agents.
- Rapid, graphically directed installations (production or test) of up to 2,000 agents. This new feature allows you to perform installations with an integrated discovery capability and graphical deployment planning tool.
- Performance-based insights of the broad IT infrastructure across distributed resources, mainframe resources, applications, middleware, transactions, and more, from a single, easy-to-use console.
- Reduced mean time to repair and incident avoidance.
- Remote agentless operating system monitors.
- The unique Agent Builder for building custom monitoring agents that integrate seamlessly into the infrastructure.
- Historical data collection that helps to identify the impact of changes, spot trends, and plan for capacity needs. It is also the basis for IBM Tivoli Monitoring Analytics that can suggest baselines and predict future threshold violations.

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: YE001

Overview

IBM Tivoli Monitoring V6.2.3 continues to deliver robust, cost effective monitoring that began with IBM Tivoli Monitoring V6.1. You get breadth of monitoring offerings in increasingly dynamic environments, efficient capture of historical data, and the use of analytics against that data to bring actionable information to the attention of operators and management. Specific capabilities:

- Inclusion of the IBM Tivoli Performance Analyzer in the base IBM Tivoli Monitoring product - By using IBM Tivoli Performance Analyzer, you can change your monitoring from reactive to predictive. This change is a significant paradigm shift. By identifying potential problems based on trends in the data, you can more often resolve problems through planned change control processes. Tivoli Performance Analyzer is included in Tivoli Monitoring V6.2.3.

- Adaptive monitoring or dynamic thresholding - This capability provides a couple of key features that you can use to set up different thresholds based on the time of day or day of week. For example, you can set one threshold for peak shift and a different threshold for off shift. In addition, you can now set up the system to learn what is "normal" for a given resource and set the threshold based on a statistical analysis of the data. For example, you can set the threshold to two standard deviations above average for a particular resource or set of resources.
- Connected with adaptive monitoring is visual baselining - By using this capability within the Tivoli Enterprise Portal (or portal), you can show statistical analysis of the metric data in a graph. You can subsequently set the monitored threshold based on the analysis done in the GUI interface.
- Improvements in the remote deployment feature - Performance and reliability have been increased. You can now upgrade many agents over a weekend within a single hub monitoring server. In addition, Tivoli Monitoring now provides the capability to export a Tivoli Configuration Manager or Tivoli Provisioning Manager software package block or a generic installable image that can be used with non-IBM software distribution products.
- Lightweight directory access protocol (LDAP) and single sign-on support - By using these features, you can integrate Tivoli Monitoring environments with standard LDAP servers such as Active Directory and Tivoli Directory Support.
- Remote agentless operating system monitors - Agents that can remotely manage many servers using any of several industry standard data providers including SNMP, CIM, and WMI.
- Many new data providers and core functionality are added to the unique Agent Builder for building custom monitoring agents that integrate seamlessly into the infrastructure. The Agent Builder has achieved functional parity with the Universal Agent and is the strategic platform for custom agents. The Universal Agent will continue to be supported, however new integration agents should be based on the Agent Builder. The UNIX® Logfile Adapter has been replaced by the Tivoli Logfile Agent, a configurable agent that is the strategic logfile solution. The UNIX Logfile Adapter will continue to be supported per the current support guidelines.
- Tivoli Monitoring V6.2.2 added reporting capability that has been further enhanced in V6.2.3 with new reports exploiting Cognos® technology.

Key prerequisites

Refer to the [Hardware and software requirements](#) section.

Planned availability date

August 26, 2011: eGA - distributed product only

September 9, 2011: pGA - distributed and z/OS® product

Description

IBM Tivoli Monitoring V6.2.3 is built on a lightweight, highly scalable architecture and is fully globalized. It brings together views of disparate resources and services performance information into a single portal interface called the Tivoli Enterprise Portal. Available monitoring coverage includes distributed operating systems, mainframe, middleware, applications, and transactions. The Tivoli Enterprise Portal integrates and allows operators and subject matter experts (SMEs) to work with several availability management products in a single view, including IBM Tivoli Monitoring, IBM Tivoli Composite Application Manager, and IBM Tivoli OMEGAMON® products. You get a truly end-to-end IT service management solution that assists users in effectively managing performance and availability across Microsoft®, Linux®, UNIX, i5/OS®, and z/OS platforms.

IBM Tivoli Monitoring V6.2.3 delivers the following:

- IBM Tivoli Monitoring capacity and performance analytics.
- Historical analysis and visualization in a single console.
- Start Up Center that allows graphical planning and unattended install for small to medium installations.
- Agent-based and agentless operating system monitoring options.
- Out-of-the-box situations that measure performance and availability of resources against predefined thresholds, alerting appropriate personnel when a potential issue is discovered.
- Correlation of situations that increases the quality of alerts, allowing operators and administrators to focus on true issues rather than sorting through an abundance of unnecessary alerts.
- Workflows that can easily be created using a simple, intuitive graphical interface to define policies for automated or manual response to conditions.
- Expert Advice that provides a preloaded, customizable knowledge base, which enhances the ability of non-experts to resolve issues without having to involve the experts.
- Built-in reports to report operating system agent and infrastructure performance history.
- An Agent Builder that facilitates creation of custom monitors in a matter of minutes.

The capabilities and enhancements of Tivoli Monitoring V6.2.3 can be used across any of the resources monitored by IBM Tivoli Monitoring, IBM Tivoli Composite Applications, and OMEGAMON product families. Each resource-specific monitor includes built-in domain expertise, such as predefined workspaces to quickly find key data for analysis and troubleshooting, out-of-the-box enabled situations that monitor and correlate multiple thresholds based on best practices for immediate value, and targeted Expert Advice that describes the particular issue, potential causes, and recommended actions to help speed diagnosis and resolution.

Accessibility by people with disabilities

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

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

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=211-289>

Program number

Program number	VRM	Program name
5724-C04	V6.2.3	IBM Tivoli Monitoring
5698-A79	V6.2.3	IBM Tivoli Management Services on z/OS
5698-S53	V1.1	IBM Tivoli Management Services on z/OS S&S

Product identification number

Program PID number host product	Subscription and Support PID number
5698-A79	5698-S53
Program PID number	

Education support

Comprehensive education for IBM Tivoli products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

<http://www-306.ibm.com/software/tivoli/education/>

Offering Information

Product information is available via the Offering Information website

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

Publications

The following publications can be ordered from IBM Publications Center, after August 23, 2011.

Title	Order number
IBM Tivoli Monitoring Installation and Setup Guide	GC32-9407
IBM Tivoli Monitoring Administrator's Guide	SC32-9408
IBM Tivoli Monitoring Quick Start Guide	GI11-8058
IBM Tivoli Monitoring Command Reference	SC32-6045
Configuring Tivoli Enterprise Monitoring Server on z/OS	SC32-9463
IBM Tivoli Monitoring User's Guide	SC32-9409
IBM Tivoli Monitoring Problem Troubleshooting Guide	GC32-9458
IBM Tivoli Monitoring Messages Guide	SC23-6065
IBM Tivoli Monitoring, OMEGAMON XE, and Composite Application Manager Products Documentation Guide	SC23-8816
IBM Tivoli Universal Agent User's Guide	SC32-9459
IBM Tivoli Monitoring: Upgrading from V5.1.2	GC32-1976
IBM Tivoli Monitoring Agent Builder User's Guide	SC32-1921
IBM Tivoli Monitoring: Windows® OS Agent User's Guide	SC32-9445
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SC32-9446
IBM Tivoli Monitoring: Linux OS Agent User's Guide	SC32-9447
IBM Tivoli Monitoring: i5/OS Agent User's Guide	SC32-9448
IBM Tivoli Monitoring: UNIX Log Agent User's Guide	SC32-9471
IBM Tivoli Composite Application Manager Agent for DB2® User's Guide V6.2.2	SC27-2491
IBM Tivoli Composite Application Manager Extended Agent for Oracle Database User's Guide V6.3.1	SC27-2490
IBM Tivoli Monitoring Command Reference	
Tivoli Enterprise Portal User's Guide	
IBM Tivoli Monitoring High Availability Guide for Distributed Systems	
IBM Tivoli Monitoring Summarization and Pruning Agent User's Guide	
IBM Tivoli Monitoring Warehouse Proxy Agent Pruning User's Guide	
IBM Tivoli OMEGAMON XE and Tivoli Management Services on z/OS:	
Common Parameter Reference	
IBM Tivoli OMEGAMON XE and Tivoli Management Services on z/OS:	
Common Planning and Configuration Guide	
IBM Tivoli OMEGAMON XE and Tivoli Management Services	

on z/OS: Upgrade Guide
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 U.S.) 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, free of charge.

The translated publications will be available for ordering on August 26.

Technical information

Specified operating environment

Hardware and software requirements

Visit

<https://www-304.ibm.com/support/docview.wss?uid=swg21506570>

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 (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 (Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

IBM Tivoli Monitoring V6.2.3 for the distributed environment is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document (part number CT63KML)
- DVD
- Publications (refer to the [Publications](#) section)

IBM Tivoli Monitoring for z/OS, V6.2.3 for the z/OS environment is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document (GC32-9477-07)
- 3480 tape cartridge
- Publications (refer to the [Publications](#) section)

This program, when downloaded from a Web site, 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 Tivoli Monitoring V6.2.3 uses the security and auditability features of the operating system software. 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/>

Licensing metric definitions and pricing examples

Licensing metric definitions

Client Device

Client Device is a unit of measure by which the program can be licensed. A Client Device is a single user computing device or special purpose sensor or telemetry device that requests the execution of or receives for execution a set of commands, procedures, or applications from or provides data to another computer system that is typically referred to as a server or is otherwise managed by the server. Multiple Client Devices may share access to a common server. A Client Device may have some processing capability or be programmable to allow a user to do work. Examples include, but are not limited to actuators, appliances, automated teller machines, automatic meter readers, cash registers, disk drives, desktop computers, kiosks, notebook computers, personal digital assistant, point-of-sale terminals, sensors, smart meters, tape drives, and technical workstations. Licensee must obtain entitlements for every Client Device which runs, provides data to, uses services provided by, or otherwise accesses the program and for every other computer or server on which the program is installed.

Resource Value Unit (RVU)

RVU is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement (PoEs) are based on the number of units of a specific resource used or managed by the program. Licensee must obtain entitlements for this program sufficient to cover the resources managed by the program. Licensee must obtain sufficient entitlements for the number of RVUs required for licensee's environment for the specific resources as specified in the resource table found in the program's announcement or License Information document. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource.

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other licenses or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes.

Cold: A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

Warm: A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

Hot: A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlements for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data, or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switchover between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

Pricing examples

The resource for the purpose of the RVU calculation is Activated Processor Cores managed by the program. 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. 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 the website below). If using full capacity licensing, each Activated Processor Core in the physical hardware environment managed by the program must be counted, except for those servers from which the program permanently no longer manages. If using virtualization capacity licensing, the Virtualization Capacity License Counting Rules that defines how many Activated Processor Cores must be counted, is located at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_specific_virtualization_technologies.html

RVU table for Managed Cores on RVUs

Tier	From quantity	To quantity	Factor
1	0	2,500	1.00
2	2,501	10,000	0.80

3	10,001	50,000	0.60
4	50,001	150,000	0.40
5	150,001	-	0.20

The RVU table for Client Devices on RVUs

Tier	From quantity	To quantity	Factor
1	0	2,500	1.00
2	2,501	10,000	0.90
3	10,001	25,000	0.80
4	25,001	50,000	0.70
5	50,001	-	0.50

Pricing example 1

A customer wishes to license for the servers in the following core environment.

Distributed servers

- 20 One Processor, Single Core servers
- 65 One Processor, Dual Core servers
- 12 Two Processor, Dual Core servers
- 10 Two Processor, Quad Core servers
- One Eight Processor, Dual Core server with two virtual or logical partitions
- One Four Processor, Quad Core server
- One z800 server with two uniprocessor IFLs running Linux (also known as "Linux on System z®")

Note: Linux on System z offerings may not be available for all Tivoli products. This licensing example assumes such availability. Linux on System z offerings have distinctly orderable part numbers in Passport Advantage, which should be used when ordering entitlements for IFLs running Linux.

If pricing products without a Linux on System z offering, you should exclude the z800 server entitlement requirement indicated below.

The customer wants to manage the applicable distributed server environment:

Systems managed	Quantity in customer environment	Processor cores to be licensed
One Processor, Single Core	20	20
One Processor, Dual Core	65	130
Two Processors, Dual Core	12	48
Two Processors, Quad Core	10	80
Eight Processors, Dual Core (2 logical partitions)	1	16
Four Processors, Quad Core	1	16
z800 server with 2 uniprocessor IFLs (requires Linux on System z availability)	1	2
Total processors to be licensed		312

Based on the 312 managed cores, the customer would require 312 RVUs.

Pricing example 2

A customer wishes to license in the following core environment:

- Servers with 45,000 Managed Cores
- 25,000 Client Devices

The following calculation is used to determine the number of RVUs required to license the 45,000 managed cores in the server environment.

Tier	Quantity of managed cores	RVUs
1	2,500	2,500
2	7,500	6,000
3	35,000	21,000
Total		29,000

- The first tier based on the RVU table is used to calculate the first 2,500 managed cores at a factor of 1 per core or in the case above 2,500 RVUs (2,500 x 1).
- The second tier is used to calculate the managed cores from 2,501 to 10,000 at a .8 factor or (7,500 x .8 = 6,000).
- The third tier is used for those managed cores between 10,001 and 50,000.
- In the example, 35,000 of the managed cores reside in tier 3 or (35,000 x .6 = 21,000).
- Adding the RVUs together for each tier, the customer requires 29,500 RVUs to license the 45,000 managed cores.

The following calculation is used to determine the number of RVUs required to license the 25,000 client devices in the environment.

Tier	Quantity of managed cores	RVUs
1	2,500	2,500
2	7,500	6,750
3	15,000	12,000
Total		21,250

- The first tier based on the RVU table is used to calculate the first 2,500 client devices at a factor of 1 per core or in the case above 2,500 RVUs (2,500 x 1).
- The second tier is used to calculate the client devices from 2,501 to 10,000 at a .9 factor or (7,500 x .9 = 6,750).
- The third tier is used for those client devices between 10,001 and 25,000. In the example, 15,000 of the managed cores reside in tier 3 or (15,000 x .8 = 12,000).
- Adding the RVUs together for each tier, the customer requires 21,250 RVUs to license the 25,000 client devices.

Ordering information

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

Product group: Tivoli

Product Identifier	Description	PID
IBM Tivoli Monitoring V6.2.3		5724-C04
IBM Tivoli Management Services on z/OS V6.2.3		5698-A79

Product category: Application Management

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 U.S. 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>

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.

Media packs description	Part number
IBM Tivoli Monitoring V6.2.3 Multiplatform, Multilingual	BJ0YYML

Current licensees

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for the distributed product in Passport Advantage

Passport Advantage allows you to have a common anniversary date for Software Subscription and Support renewals, which can simplify management and budgeting for eligible new versions and releases (and related technical support) for your covered products. The anniversary date, established at the start of your Passport Advantage Agreement, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases will initially include twelve full months of Software Subscription and Support. Software Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Subscription and Support will renew at the common anniversary date for twelve full months of Software Subscription and Support.

Refer to the IBM International Passport Advantage Agreement and to the *IBM Software Support Handbook* for specific terms relating to, and a more complete description of, technical support provided through Software Subscription and Support.

The quantity to be specified for the Passport Advantage part numbers in the following table is per processor Value Units and per client devices. To order a chargeable option for Passport Advantage, specify the desired part number and quantity.

Description	Part number
Tivoli Monitoring per Resource Value Unit Lic + SW S&S 12 Mo	D0IAMLL
Tivoli Monitoring per Resource Value Unit Annual SW S&S Rnw1	E0BLKLL

Tivoli Monitoring per Resource Value Unit SW S&S Reinstate 12 Mo	D0IANLL
Tivoli Monitoring from IBM Director per RVU Trdup Lic + SW S&S 12 Mo	D0IAPLL
Tivoli Monitoring per Resource Value Unit zLinux Lic + SW S&S 12 Mo	D0IAQLL
Tivoli Monitoring per Resource Value Unit zLinux Annual SW S&S Rnw1	E0BLLLL
Tivoli Monitoring per Resource Value Unit zLinux SW S&S Reinstate 12 Mo	D0IARLL
Tivoli Monitoring Universal Agent for Clients RVU Lic + SW S&S 12 Mo	D0IATLL
Tivoli Monitoring Universal Agent for Clients RVU Annual SW S&S Rnw1	E0BLMLL
Tivoli Monitoring Universal Agent for Clients RVU SW S&S Reinstate 12 Mo	D0IAULL

To order a media pack for Passport Advantage, specify the part number in the desired quantity from the following table:

Description	Part number
-	
IBM Tivoli Monitoring V6.2.3 Multiplatform, Multilingual	BJ0YYML

IBM Tivoli Monitoring V6.2.3 is also available, via web download, from Passport Advantage.

Ordering information for the MSU-based z/OS product

Translation from MSUs to Value Units

	MSUS	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	.45
Tier B	46-175	.36
Tier C	176-315	.27
Tier D	316+	.20

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 Tivoli Management Services on z/OS, V6.2.3
 Program PID: 5698-A79

Entitlement identifier	Description	License option/ Pricing metric
S01215F	Tivoli Management Services on z/OS	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC

Orderable supply ID	Description	Language	Distribution medium
S01667T	Tivoli Management Services on z/OS	Multilingual	3590 tape cartridge

Subscription and Support PID: 5698-S53

Entitlement identifier	Description	License option/ Pricing metric
S012558	Tivoli Management Services on 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	Description	Language	Distribution medium
---------------------	-------------	----------	---------------------

Subscription and Support

Subscription and Support must be ordered to receive voice technical support via telephone during normal business hours, and future releases and versions, at no additional charge. The capacity of Subscription and Support (for example, Value Units or number of processors) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program product number and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products, via a separately purchased offering, under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions, at no additional charge. Note that the customer is not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by the customer.

Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac®.

CBPDO and ServerPac 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 ShopzSeries 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 for CBPDO, ServerPac, and SystemPac, include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. 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
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

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.

Terms and conditions for distributed products

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

Licensing

IBM International Program License Agreement including the License Information document and 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).

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.

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 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 (also referred to as Software Maintenance) with the initial license acquisition of each program 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. 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 number

GC32-9477-07. 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 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 (via 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, 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

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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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

Yes, and through the Passport Advantage website at

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

Usage restriction

No

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 (Software Maintenance) applies

Yes. 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 (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 (Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support (Software Maintenance) 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, 7 days a week. For additional details, consult your IBM Software Support Handbook at

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

Software Subscription and Support (Software Maintenance) 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>

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 (Software Maintenance) 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 (Software Maintenance) 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>

Other support

Variable charges apply

No

Educational allowance available

Not applicable.

Terms and conditions for host products

Licensing

IBM International Program License Agreement including the License Information document and 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) agreement applies for subscription and support and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

CT63KML. 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 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 (via 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, 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

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

Usage restriction

No. 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 (Software Maintenance) applies

No.

For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

IBM Operational Support Services - SoftwareXcel

Yes

Other support

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

Sub-capacity terms and conditions

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

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

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

Program number	Program name	Terms
5698-A79	IBM Tivoli Monitoring for z/OS	z/OS-based

Full-capacity mainframes

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

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

For more information on mainframe MSU-rated capacities, visit

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

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

Sub-capacity mainframes

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

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

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

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

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

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

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

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

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

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

- Where MLC pricing is aggregated across the sysplex

Sub-capacity eligibility

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

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

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

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

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

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

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

IBM Getting Started Sub-capacity Pricing for z/OS IPLA Software applies.

Sub-capacity pricing terms and conditions

To be eligible for sub-capacity pricing, the machine on which the eligible products are installed and running must be eligible for sub-capacity pricing terms and conditions. Software pricing, at less than full machine capacity for eligible products, apply when running:

- AIX 5L™ V5.1, or later, on an IBM System p® 690 or equivalent partition-capable operating system and machine
- OS/400® V5R1, or later, running on an IBM System i®
- Linux running in an LPAR under AIX 5L V5.1, OS/400 V5R1, or in a partition on an equivalent partition-capable operating system and server

Sub-capacity pricing for eligible products is based on the current program pricing methodology, but the number of processors will be determined based on the sum of processors for all partitions where the program is defined (used). To obtain pricing at less than full machine capacity for eligible products, you are required to:

- Install and use, when available, IBM's license use management program, which installs with eligible IBM programs.
- Install available updates to the operating system and eligible products such that license use can be accurately managed.
- Determine if the use of sub-capacity pricing results in a reduced requirement for entitlements; you can reallocate the entitlement difference by distributing entitlements across a larger or different set of systems, or reserve them for future growth. There will be no refunds for these freed up entitlements. Subscription, Software Maintenance and support volumes, and entitlements for existing contracts will continue at the same levels as the acquired licenses.

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

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

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

Program number	Program name	Terms
5698-A79	IBM Tivoli Monitoring on z/OS v6.2.3	z/OS-based

Full-capacity mainframes

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

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

For more information on mainframe MSU-rated capacities, visit

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

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

Sub-capacity mainframes

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

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

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

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

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

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

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

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement [204-184](#), dated August 10, 2004.

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

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

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

- That meets the criteria defined in Hardware Announcement [198-001](#), dated January 13, 1998
- Where MLC pricing is aggregated across the sysplex

Sub-capacity eligibility

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

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

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

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

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

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

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

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64-bit) mode on a System z ((or equivalent) server).

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.

IBM Electronic Services

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>

Prices

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>

Information on charges is available at website

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

In the Electronic tools category, select the option for Purchase/upgrade tools.

Passport Advantage

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

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

Order now

To order, contact your local IBM representative or your IBM Business Partner.

To identify your local IBM Business Partner or IBM representative, call 800-IBM-4YOU (426-4968). For more information, contact the Americas Call Centers.

Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)
For IBM representative: callserv@ca.ibm.com

For IBM Business Partner: 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.

Trademarks

AIX 5L, eServer and Electronic Service Agent are trademarks of IBM Corporation in the United States, other countries, or both.

IBM, Tivoli, Cognos, z/OS, OMEGAMON, i5/OS, PartnerWorld, DB2, Passport Advantage, Express, System z, SystemPac, Parallel Sysplex, OS/390, z/Architecture, System z9, System p, OS/400, System i, zSeries and ibm.com are registered trademarks of IBM Corporation in the United States, other countries, or both.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States, other countries, or both.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

Terms of use

IBM products and services which are announced and available in your country can be ordered under the applicable standard agreements, terms, conditions, and prices in effect at the time. IBM reserves the right to modify or withdraw this announcement at any time without notice. This announcement is provided for your information only. Additional terms of use are located at

<http://www.ibm.com/legal/us/en/>

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/>