



IBM Tivoli Monitoring V6.2 provides improved ease of use, enhanced views, and tighter integration with other Tivoli products for better service management

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At a glance

IBM Tivoli Monitoring V6.2 can provide:

- End-to-end view of performance and availability of the IT infrastructure across distributed resources, mainframe resources, applications, middleware, transactions, and more — from a single, easy-to-use console
- Predefined views called workspaces deliver immediate value in displaying performance and availability data, as well as facilitating communication between individuals by providing a common view, with the flexibility to quickly create additional workspaces tailored to the needs of each individual or group
- Historical data collection helps to identify the impact of changes, spot trends, and plan for capacity needs
- Expert advice puts more knowledge in the hands of the operators for quicker issue resolution without having to rely as heavily on subject matter experts
- Better service management through seamless integration of information that enables enhanced reporting and analysis
- Additional tools to help automate the migration of IBM Tivoli Monitoring V5 resource models to IBM Tivoli Monitoring V6.2 situations

For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

800-IBM-CALL Reference: SE001

Overview

IBM Tivoli® Monitoring V6.2 builds on the robust monitoring capabilities of IBM Tivoli Monitoring V6.1, providing improved ease of use, enhanced views, and tighter integration with other Tivoli products for better service management. The major enhancements of this release include:

- Tivoli Enterprise™ Portal user authentication, via LDAP, to reduce implementation and administration work
- Introduction of Agent Builder that facilitates creation of custom monitors in a matter of minutes
- Improved performance and scalability
- Enhanced monitoring of System p™ AIX® environments, including mapping of virtual resources to physical resources, created by the AIX development team

- Support of regular expressions for log file monitoring, using the IBM Tivoli Monitoring Universal Agent
- Better visualization with improved chart views, IBM Tivoli Monitoring infrastructure topology view enhancements, and support for a full-function browser within a workspace
- Common Event Viewer, which integrates IBM Tivoli Monitoring, IBM Tivoli Enterprise Console®, and IBM Tivoli Netcool OMNIbus events into a single console
- Tools to help automate the migration of IBM Tivoli Monitoring V5 resource models to IBM Tivoli Monitoring V6.2 situations

This release includes updates to several products in the IBM Tivoli Monitoring family. The updated products are:

- IBM Tivoli Monitoring
- IBM Tivoli Monitoring Active Directory Option
- IBM Tivoli Monitoring for Applications
- IBM Tivoli Monitoring for Databases

Key prerequisites

Refer to the Hardware requirements section.

Planned availability dates

- November 23, 2007: Electronic general availability
- December 14, 2007: Media general availability

Description

IBM Tivoli Monitoring V6.2 helps keep businesses running. As businesses increasingly rely on information technology to deliver services to their customers, as well as to improve the efficiency and effectiveness of their internal processes, the criticality of these resources increases dramatically. IBM Tivoli Monitoring V6.2 increases the performance and availability of IT resources by identifying potential issues before they impact users, and either automating corrective actions or providing key diagnostic data to allow for quicker recovery of the service. IBM Tivoli Monitoring delivers these capabilities:

- Out-of-the-box situations measure performance and availability of resources against predefined thresholds, alerting appropriate personnel when a potential issue is discovered
- Correlation of situations increases the quality of alerts, allowing operators and administrators to focus on true issues, rather than sorting through an abundance of unnecessary alerts
- Workflows can easily be created using a simple, intuitive graphical interface to define policies for automated or manual response to conditions
- Visualization of real-time and historical data side-by-side helps to spot trends, understand the impact of changes in the environment, and diagnose issues in the context of the alert without having to use a multitude of disparate tools
- Expert Advice provides a preloaded, customizable knowledge base, which enhances the ability of non-experts to resolve issues without having to involve the experts

These features aren't new to IBM Tivoli Monitoring V6.2, but have been augmented in the following ways since the release of IBM Tivoli Monitoring V6.1:

- Enhanced chart and topology views for improved data visualization
- Integration of full-function browser to provide access to rich contextual data
- Simplified user administration with LDAP authentication and the ability to define user groups for setting permissions

- Enhanced monitoring of System p AIX environments, including mapping of virtual resources to physical resources, created by the AIX development team
- Introduction of Agent Builder that facilitates creation of custom monitors in a matter of minutes
- Support for regular expressions when monitoring log files using the IBM Tivoli Monitoring Universal Agent
- Improved performance and scalability
- Common Event Viewer, which integrates IBM Tivoli Monitoring, IBM Tivoli Enterprise Console, and IBM Tivoli Netcool OMNIBus events into a single console

The capabilities and enhancements described above can be used across any resources monitored by the IBM Tivoli Monitoring V6.2 product family. 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. The particular monitors included with each product are listed below:

- IBM Tivoli Monitoring V6.2 — i5/OS™, Linux™, UNIX®, Windows®
- IBM Tivoli Monitoring Active Directory Option V6.2 — Microsoft® Active Directory Server
- IBM Tivoli Monitoring for Applications V6.2 — SAP
- IBM Tivoli Monitoring for Cluster Manager V6.1 (not updated in this release) — Microsoft Cluster Server
- IBM Tivoli Monitoring for Databases V6.2 — DB/2, Microsoft SQL Server, Oracle, Sybase
- IBM Tivoli OMEGAMON® XE for Microsoft — BizTalk Server, Commerce Server, Content Management Server, .NET Framework, Host Integration Server, Internet Security and Acceleration Server, SharePoint Portal Server, UDDI Services
- IBM Tivoli Monitoring for Virtual Server V6.1 (not updated in this release) — Citrix, Microsoft Virtual Server, VMware ESX

In addition to those resource-specific monitors, the IBM Tivoli Monitoring Universal Agent provides the ability to create custom monitors for almost any resource. Over a hundred pre-built solutions using the IBM Tivoli Monitoring Universal Agent can be found at the Open Process Automation Library (OPAL) Web site at

<http://catalog.lotus.com/wps/portal/tm/>

IBM Tivoli Monitoring V6.2 also includes tools to help automate the migration of IBM Tivoli Monitoring V5 resource models to IBM Tivoli Monitoring V6.2 situations.

Accessibility by people with disabilities

You can request a U.S. Section 508 Voluntary Product Accessibility Template (VAPT) with details on accessibility compliance at

http://www-3.ibm.com/able/product_accessibility/index.html

Value Unit-based pricing

Value Unit pricing for eligible IBM eServer® System z™ IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing, has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each 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**. Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the

nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool Web site

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

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

To determine the required license capacity for the System z IPLA program you selected, refer to the Terms and conditions section.

Product positioning

The IBM Tivoli Monitoring V6.2 family of products monitors a broad range of IT resources, consolidating information about the performance and availability of these resources in a single consistent interface, providing alerts and contextual knowledge when issues occur, and automating corrective actions when appropriate. This helps to improve the IT organization's efficiency and effectiveness in responding to and resolving events, incidents, and problems. In addition, this data can be used as a foundation for higher value capabilities such as business service management, service level management, capacity planning, and more. By itself or integrated into a broader solution, IBM Tivoli Monitoring helps to improve the service management capabilities of the IT organization.

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).

BP Attachment for Announcement Letter 207-305

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=207-305>

Trademarks

Tivoli Enterprise, System p, i5/OS, and System z are trademarks of International Business Machines Corporation in the United States or other countries or both.

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

Linux is a 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.

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 Web site

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

Publications

The following publications can be ordered from IBM Publications Center, after November 20, 2007.

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
Exploring IBM Tivoli Monitoring (beta workbook)	SC32-1803
Configuring Tivoli Enterprise(TM) Monitoring Server on z/OS(R)	SC32-9463
IBM Tivoli Monitoring User's Guide	SC32-9409
IBM Tivoli Monitoring Problem Determination Guide	GC32-9458
IBM Tivoli Monitoring Messages	SC23-6065
IBM Tivoli Monitoring and OMEGAMON(R) XE Products Documentation Guide	SC23-8816
IBM Tivoli Universal Agent User's Guide	SC32-9459
IBM Tivoli Universal Agent API and Command Programming Reference Guide	SC32-9461
IBM Tivoli Monitoring: Upgrading from V5.1.2	GC32-1976
IBM Tivoli Monitoring Agent Builder User's Guide	SC32-1921
IBM Tivoli Monitoring: Windows(R) OS Agent User's Guide	SC32-9445
IBM Tivoli Monitoring: UNIX(R) OS Agent User's Guide	SC32-9446
IBM Tivoli Monitoring: Linux(TM) OS Agent User's Guide	SC32-9447
IBM Tivoli Monitoring: i5/OS(TM) Agent User's Guide	SC32-9448
IBM Tivoli Monitoring: UNIX Log Agent User's Guide	SC32-9471
IBM Tivoli Monitoring for Active Directory Agent User's Guide	SC32-9444
IBM Tivoli Monitoring for Active Directory Agent Quick Start Guide	GC32-6135
IBM Tivoli Monitoring for Applications Quick Start Guide	GC32-1922
IBM Tivoli Monitoring for Applications: mySAP Agent User's Guide	SC32-9443
IBM Tivoli Monitoring for Databases Quick Start Guide	GC23-6133
IBM Tivoli Monitoring for Databases: DB2(R) Agent User's Guide	SC32-9449
IBM Tivoli Monitoring for Databases: Oracle Agent User's Guide	SC32-9450
IBM Tivoli Monitoring for Databases: Sybase Server Agent User's Guide	SC32-9451

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.

Technical information

Specified operating environment

Hardware requirements

Platform	TEMA/OS	TEMS	TEP	TEPS	WHP	S and P
2000 Server and Adv. Server	(32)	(32)	(32)	(32)	(32)	
Windows XP	(32)	(32)	(32)		(32)	(32)
Vista x86 and x86-64			(32)			
2003 SE and EE x86	(32)	(32)	(32)	(32)	(32)	(32)
2003 DC x86 and x86-64	(32)					
2003 SE and EE x86-64	(32)					
2003 Server IA64	(32)					
AIX(R) V5.2	(32)	(32)				(32)
AIX V5.3	(32, 64N)	(32)		(32)	(32)	(32)
Solaris V9/10 Sparc	(32, 64N)	(32)				(32)
Solaris V10 x86-64	(32, 64N)	(32)				
Solaris Zones	(32, 64N)	(32)				(32)
HP-UX V1 PaRISC	(32, 64N)					
HP-UX V2 and V3 PaRISC	(32, 64N)					
HP-UX V2 and V3 IA64	(32, 64N)	(32)			(32)	(32)
I5/OS 5.3 and 5.4	(64N)					
z/OS 1.6, 1.7, 1.8 and 1.9	(31, 64N)	(31)				
Asianux 2.0 x86	(32)	(32)	(32)	(32)	(32)	(32)
Asianux 2.0 IA64	(64N)	(32)	(32)	(32)	(32)	(32)
Red Flag 4.1 x86	(32)	(32)	(32)	(32)	(32)	(32)
RHEL 2.1 x86	(32)					
RHEL 3 x86 and zSeries(R)	(32(31, 64N)					
RHEL 4 and 5 x86	(32)	(32)	(32)	(32)	(32)	(32)
RHEL 4 and 5 zSeries	(31, 64N)	(32)		(32)	(32)	(32)
RHEL 4 and 5 x86-64	(64N)	(32)				
RHEL 4 and 5 i/pSeries(R)	(32, 64N)					
RHEL 4 and 5 IA64	(64N)					
SLES 8 x86 and zSeries	(32)(31, 64N)					
SLES 9 and 10 x86	(32)	(32)	(32)	(32)	(32)	(32)
SLES 9 and 10 zSeries	(31, 64N)	(32)		(32)	(32)	(32)
SLES 9 and 10 x86-64	(64N)					
SLES 9 and 10 i/pSeries	(32, 64N)					
SLES 9 and 10 IA64	(64N)					

Planning information

Software Maintenance is included with licenses purchased through Passport Advantage® and Passport Advantage Express. Product upgrades and Technical Support are provided by the 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 Maintenance with each Program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available.

Packaging

IBM Tivoli Monitoring is distributed with:

- International Program License Agreement (Z125-3301)
- License Information document (for z/OS product)
- Media
- Publications (refer to the Publications section)

Security, auditability, and control

IBM Tivoli Monitoring 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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

IBM Tivoli Enhanced Value-Based Pricing

Tivoli software products are priced using Tivoli's Enhanced Value-Based Pricing. The Enhanced Value-Based Pricing system is based upon the Tivoli Environment-Managed Licensing Model, which uses a managed-environment approach — whereby price is determined by what is managed rather than the number and type of product components installed.

For example, all servers monitored with Tivoli's monitoring product (IBM Tivoli Monitoring) require entitlements sufficient for those servers. Other Tivoli products may manage clients, client devices, agents, network nodes, users, or other items, and are licensed and priced accordingly.

Unlike typical systems management licensing models that require entitlements of specific software components to specific systems, the IBM Tivoli Environment-Managed Licensing Model provides the customer flexibility to deploy its Tivoli software products within its environment in a manner that can address and respond to the customer's evolving architecture. That is, as the architecture of a customer's environment changes, the customer's implementation of Tivoli software can be altered as needed without affecting the customer's license requirements (as long as the customer does not exceed its entitlements to the software).

Under Enhanced Value-Based Pricing, licensing and pricing of server-oriented applications are determined based upon the server's use in the customer's environment. Typically, such applications are licensed and priced in a manner that corresponds to each installed and activated processor of the server managed by the Tivoli application to help correlate price to value while offering a simple solution.

Where a server is physically partitioned, this approach is modified. This partitioning technique is the approach used with systems that have either multiple cards or multiple frames, each of which can be configured independently. For servers capable of physical partitioning (for example, IBM's pSeries Scalable POWERparallel Systems® servers, Sun Ultra servers, and HP Superdome servers), an entitlement is required for each processor in the physical partition being managed

by the Tivoli application. For example, assume that a server has 24 processors installed in aggregate. If this server is not partitioned, entitlements are required for all 24 processors. If, however, it is physically partitioned into three partitions each containing eight processors, and Tivoli products were managing only one of the three partitions, then entitlements would be required for the eight processors on the physical partition managed by the Tivoli application.

For servers with virtual or logical partitions, entitlements are required for all installed and activated processors on the server. For each Tivoli application managing a clustered environment, licensing is based on the cumulative number of installed and activated processors on each server in the cluster. Where the cluster includes physically partitioned servers, the considerations described above concerning physically partitioned servers apply as well.

Enhanced Value-Based Pricing recognizes the convergence of RISC/UNIX and Microsoft Windows/Intel® technologies, in order to simplify the customers' licensing requirements, and to provide a smoother, more scalable model. Pricing and licensing does not differentiate between non-zSeries server platforms or operating systems. For some products, this platform neutrality extends to zSeries and other host servers as well.

IBM Tivoli Enhanced Value-Based Pricing terminology

Client device or client

A client device is a computing device that requests the execution of a set of commands, procedures, or applications from another computer system that is typically referred to as a server. Multiple client devices may share access to a common server. A client device generally has some processing capability or is programmable to allow a user to do work. Examples include, but are not limited to, notebook computers, desktop computers, desk side computers, technical workstations, appliances, automated teller machines, point-of-sale terminals, tills and cash registers, and kiosks.

Engine

An engine is also referred to as a central processor (CP) or processor. Engines for traditional workloads are called General Purpose CPs. Engines for Linux workloads are called Integrated Facility for Linux (IFL) engines or Linux-only engines. Engines for Coupling Facility workloads are called Integrated Coupling Facility (ICF) engines.

Enterprise

A person or single entity and the subsidiaries owned by more than 50%.

External user

An authorized user that is not part of the enterprise.

IBM Integrated Facility for Linux (IFL)

This optional facility enables additional processing capacity exclusively for Linux workload, with no effect on the model designation of a zSeries or OS/390® server. Consequently, executing Linux workload on the IBM Integrated Facility for Linux will not, in most cases, result in any increased IBM software charges for z/OS, OS/390, VM, VSE, or TPF operating systems/applications. There is, as indicated, a charge associated with the IFL, and there may also be a charge for applications which run on the IFL.

The IFL may be dedicated to a single Linux-mode logical partition or it may be shared by multiple Linux-mode logical partitions. Installations should note that the Linux workspace enabled by this facility will not support any of the S/390 traditional operating systems (OS/390, TPF, VSE, or VM). Only Linux applications or Linux operating in conjunction with the Virtual Image Facility™, an environment that operates within a logical partition or in native S/390® mode and provides the capability to create multiple Linux images, are supported by the IBM S/390 Integrated Facility for Linux.

Install

An install is a copy or instance of the program in the Enterprise.

Managed processor (charging under Full Capacity in the managed environment)

Charges are based on the active processors on the machines in the computing environment affiliated with the program rather than on the server where the program is run. The managed processors which require proofs of entitlement (PoEs) are defined in the Prices section of the announcement or the License Information's program-unique terms.

Notes:

1. IBM defines a physical processor in a computer as a functional unit that interprets and executes instructions. A physical processor consists of at least an instruction control unit and one or more arithmetic and logic units.
2. Multi-core technology allows two or more processors (commonly called cores) to be active on a single silicon chip. With multi-core technology, IBM considers each core to be a physical processor. For example, in a dual-core chip, there are two physical processors residing on the single silicon chip.
3. The program may **not run on some or all** of the processors for which PoEs are required by the program's valuation method.
4. In the zSeries Integrated Facility for Linux (IFL) environment, each IFL engine is considered a single physical processor.
5. Threading, a technique which makes a single processor seem to perform as two or more, does **not** affect the count of physical processors.
6. Where blade technology is employed, each blade is considered a separate server and charging is based upon the total number of processors

MSU

Millions of Service Units (MSU) is defined as millions of CPU service units per hour; the measure of capacity used to describe the computing power of the hardware processors on which S/390 or zSeries software runs. Processor MSU values are determined by the hardware vendor, IBM, or Software Compatible Vendors (SCVs).

For more detailed information about zSeries software pricing, go to

http://www-1.ibm.com/servers/eserver/zseries/library/refguides/sw_pricing.html

Partitions

A server's resources (CPU, memory, I/O, interconnects and buses) may be divided according to the needs of the applications running on the server. This partitioning can be implemented with physical boundaries (Physical Partitions) or logical boundaries (Logical Partitions).

Physical Partitions are defined by a collection of processors dedicated to a workload and can be used with systems that have either multiple cards or multiple frames, each of which can be configured independently. In this method, the partitions are divided along hardware boundaries and processors, and the I/O boards, memory and interconnects are not shared.

Logical Partitions are defined by software rather than hardware and allocate a pool of processing resources to a collection of workloads. These partitions, while separated by software boundaries, share hardware components and run in one or more physical partitions.

Port

A port is the physical connection between a device and the network.

Processor ("per Processor" charging under Full Capacity)

In Full Capacity charging, Proof of Entitlements must be acquired for all activated processors (available for use) that are on the server where the program or a component of the program is run.

Notes:

1. IBM defines a physical processor in a computer as a functional unit that interprets and executes instructions. A physical processor consists of at least an instruction control unit and one or more arithmetic and logic units.
2. Multi-core technology allows two or more processors (commonly called cores) to be active on a single silicon chip. With multi-core technology, IBM considers each core to be a physical processor. For example, in a dual-core chip, there are two physical processors residing on the single silicon chip.
3. In the zSeries' Integrated Facility for Linux (IFL) environment, each IFL engine is considered a single physical processor.
4. Threading, a technique which makes a single processor seem to perform as two or more, does **not** affect the count of physical processors.

5. Where blade technology is employed, each blade is considered a separate server and charging is based upon the total number of processors on the blade on which the program is run.
6. When a server is shipped with six processors, but two of them are inactive, four processors are active for the customer.
7. Not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor value unit conversion table on the Passport Advantage Web site

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

Server

A server is a computer system that executes requested procedures, commands, or applications to one or more user and/or client devices over a network. A proof of entitlement (PoE) must be obtained for each server on which the program or a component of the program is run or for each server managed by the program. Where blade technology is employed, each blade is considered a separate server.

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 license 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 entitlement 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 switch over 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, and so on), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

Value Units

A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurements are processor cores and MSUs. However, for select programs, there are other designated measurements such as servers, users, client devices, and messages. The number of Value Unit entitlements required for your specific implementation of the given program must be obtained from a conversion table associated with the program. You must obtain a proof of entitlement (PoE) for the appropriate number of Value Unit entitlements for your implementation. The Value Unit entitlements of a given program cannot be exchanged, interchanged, or aggregated with Value Unit entitlements of another program. Whenever the designated measurement is a processor core, not all processors require the same number of Value Unit entitlements. To determine the number of Value Unit entitlements required, refer to the processor value unit conversion table on the Passport Advantage Web site

Pricing examples

IBM Tivoli Management Services on z/OS

The scales below are used to calculate the equivalent number of Value Units for a specified number of MSUs.

All products in this example employ value unit slope VUE007 (VUE = Value Unit Exhibit).

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

When calculating the total number of Value Units, the sum is rounded up to the next integer. So the customer will need to license 344 MSUs in this example.

Value Units for non MSU-based S/390 processors:

System	Value units/ system
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL Models	2

Value Units for IBM 9672 processors are based upon the full capacity of these systems. This is applicable to all zSeries systems measured on MSU capacity. Information on MSU capacities can be found in the IBM System/370™, System/390®, and zSeries Machine Exhibit, Z125-3901.

IBM Tivoli Monitoring

The IBM Tivoli Monitoring Solutions are a family of programs that help to monitor and manage distributed environments. The family consists of an IBM Tivoli Monitoring program and various IBM Tivoli Monitoring for (specific application) programs.

The IBM Tivoli Monitoring program is comprised of the IBM Tivoli Monitoring foundation and various operating system agents. The IBM Tivoli Monitoring for (specific application) programs are solutions that are each comprised of various application agents designed to monitor and manage one or more specific application areas (for example, the IBM Tivoli Monitoring for Databases program may be comprised of DB2, MS SQL, Oracle, and Sybase agents).

Each server with an IBM Tivoli Monitoring for (specific application) program is based on, and requires licensing and deployment of, the IBM Tivoli Monitoring program as a prerequisite.

Customers are entitled to use any or all of the application agents that are delivered with an IBM Tivoli Monitoring for (specific application) program for each server licensed. Licensing is required for each server that deploys any or all of the application agents provided in a specific IBM Tivoli Monitoring for (specific application) program.

Pricing example 1

The customer's core environment requiring the IBM Tivoli Monitoring program includes:

Distributed servers

- 20 uniprocessors
- 65 2-way servers
- 12 4-way servers
- One 8-way server
- One 12-way server with two virtual or logical partitions

- One 14-way server
- One 16-way Sun Ultra server with two 8-way physical partitions (only one of which is managed by Tivoli applications)
- One 24-way 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, which requires Value Unit entitlements associated with the following number of processors:

Systems managed	Quantity in customer environment	Processors to be licensed
Uni processor	20	20
2- way	65	130
4- way	12	48
8- way	1	8
12- way (2 logical partitions)	1	12
14- way	1	14
16- way (2 physical partitions, one of which is managed by Tivoli Appl.)	1	8
24- way	1	24
z800 server with 2 uniprocessors IFLs (requires Linux on system z avail.)	1	2
Total processors to be licensed		266

Pricing example 2

IBM Tivoli Monitoring for (specific application) programs

In addition to licensing IBM Tivoli Monitoring for the core environment described above (processor Value Unit entitlements associated with the 266 Managed Processor requirement for the IBM Tivoli Monitoring program), the customer decides to monitor 10 two-way database servers (five DB2 and five Oracle). The customer must obtain processor Value Unit entitlements associated with the following number of processors:

Systems managed	Quantity in customer environment	Processors to be licensed
2- way	10	20
Total processors to be licensed		20

Note that licensing of the IBM Tivoli Monitoring program is required for every server with an IBM Tivoli Monitoring for (specific application) program. Therefore, in this example, if the customer's two database servers are incremental to the servers described in the core environment, the customer also requires processor Value Unit entitlements associated with 20 additional managed processors of the IBM Tivoli Monitoring program for the new database servers.

Licensing is valid for any agent supported by the IBM Tivoli Monitoring for (specific application) program.

Pricing example 3

Universal Agent V6.1 Customers are authorized to install the IBM Tivoli Universal Agent V6.1 only on the same designated processors on which they have proof of entitlement to install:

1. IBM Tivoli Monitoring V5.x monitoring agents (IBM Tivoli Monitoring Proactive Analysis)

- Components, or PACs),
2. Distributed Monitoring agents (Tivoli Manager for products), or
 3. IBM Tivoli Monitoring V6.1 program with rights to use the following monitoring agents (Tivoli Monitoring with either (a) Windows OS Agent, (b) UNIX OS Agent, (c) UNIX Log Agent, (d) Linux OS Agent, or (e) i5/OS Agent). Customers may use the IBM Tivoli Universal Agent solely for the purpose of monitoring data on the designated processor and not for any other purpose.

Installation and use of the IBM Tivoli Universal Agent, except as provided here, requires the payment of additional license fees. For example, if you want to use the IBM Tivoli Universal Agent without purchasing an IBM Tivoli Monitoring program, or to monitor devices external to the designated processor, customers must pay a separate license fee.

Example: If the customer wants to use the IBM Tivoli Universal Agent across the following environment, the customer must obtain processor Value Unit entitlements associated with 20 additional Universal Agent "Managed Processor" and eight "Client Device" entitlements.

Systems managed	Systems with IBM Tivoli Monitoring	Systems without IBM Tivoli Monitoring	Additional universal agent licenses required beyond those received via IBM Tivoli Monitoring
2-way server	10	0	0
4-way server	5	5	20 processors
10 external devices	2	8	8 client devices

Ordering information

Product group: Availability and performance products

Product Identifier	Description
5698-A79 V6.2	IBM Tivoli Management Services on z/OS
5698-S53 V1.1	IBM Tivoli Management Services on z/OS S and S
5724-C04 V6.2	IBM Tivoli Monitoring
5724-C71 V6.2	IBM Tivoli Monitoring Active Directory Option
5724-B97 V6.2	IBM Tivoli Monitoring for Applications
5724-B96 V6.2	IBM Tivoli Monitoring for Databases

Product category: Tivoli Monitoring

Value Unit: A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurement is a processor core. However, for select programs, there are other designated measurements such as users, client devices, and messages. The number of Value Unit entitlements required for a program depends on how the program is deployed in your environment and must be obtained from a Value Unit table. You must obtain a Proof of Entitlement (PoE) for the calculated number of Value Unit entitlements for your implementation. The Value Unit entitlements are specific to a program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

For programs eligible for sub-capacity licensing, a Proof of Entitlement (PoE) must be acquired for the appropriate number of Value Units based on all activated processor cores available for use in each partition (utilizing eligible partitioning technologies) where the program runs. Refer to the "International Passport Advantage Agreement Attachment for Sub-Capacity Terms" or the program's license information to determine applicable sub-capacity terms.

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

Program number	Program name	Value unit exhibit
5698-A79	IBM Tivoli Management	VUE007

Services on z/OS V6.2

5724-C04	IBM Tivoli Monitoring V6.2	VUE100
5724-C71	IBM Tivoli Monitoring Active Directory Option V6.2	VUE100
5724-B97	IBM Tivoli Monitoring for Applications V6.2	VUE100
5724-B96	IBM Tivoli Monitoring for Databases	VUE100

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

Note: 5798-A79 was originally announced in Software Announcement [205-242](#), dated September 27, 2005, as Tivoli Monitoring Services on z/OS V6.1.

Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value units/ machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL Models	2

Ordering example

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

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

Translation from MSUs to Value Units

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

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

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 Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

On/Off Capacity on Demand

The products in this announcement are eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

Product Name	PID
IBM Tivoli Management Services on z/OS	5698-A79

Program name: IBM Tivoli Management Services on z/OS
Program PID: 5698-A79

Entitlement identifier	Description	License option/ pricing metric
S01225F	IBM Tivoli Management Services on z/OS	Basic OTC, Per MSU-day TUC

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	Sub ID Descriptions
IBM Tivoli Monitoring V6.2	BJOGGML	Tiv Distr Monit Ntw Intru Detct Tmp Tiv Dist Monit Nw Intru Detc Zs Tmp Tivoli Monitoring Client 5697EMN Tiv Distrb Monit Cli Cli 5697EMN Tiv Distrb Monit Svr Svr Tivoli Mon Univ Agent Mgd Proc Tivoli Mon Univ Agent Clnt Device Tiv Monit Proc Tivoli Monitoring 10 VU Tivoli Monitoring Host Ed 10 VU Tivoli Mon Univ Agent VU Tivoli Monitoring Host Ed Proc
IBM Tivoli Monitoring for Active Directory Option V6.2	BJOGXML	Tiv Distr Monit Ntw Intru Detct Tmp Tiv Dist Monit Nw Intru Detc Zs Tmp 5697EMN Tiv Distrb Monit Cli Cli 5697EMN Tiv Distrb Monit Svr Svr Tivoli Monit Actv Dirctry Optn Proc Tivoli Monit Actv Dirctry Optn 10VU
IBM Tivoli Monitoring for Application V6.2	BJOGVML	Tiv Mgr R/3 Tmp 5697ASA Tiv Mgr R/3 Svr Svr 5697ASA Tiv Mgr R/3 Cli Cli Tivoli Monitoring for App VU zLinux Tiv Monit Applicas Value Unit Tivoli Monitoring for App VU zLinux Tiv Monit Applicas Value Unit Tivoli Mgr For Siebel For eBus Tmp
IBM Tivoli Monitoring for Databases V6.2	BJOGWML	Tiv Mgr DB2 Tmp Tiv Mgr Informix(TM) Tmp Tivoli Mgr For Msoft Sql Svr Proc 5697MSS Tiv Mgr Msoft Sql Cli Cli 5697MSS Tiv Mgr Msoft Sql Svr Svr Tiv Mgr For Msoft Sql Svr Tmp Tivoli Mgr For Oracle Tmp 5697DBT Tiv Mgr DB2 Cli Cli 5697ORA Tiv Mgr Ora 7 Svr Svr 5697ORA Tiv Mgr Ora 7 Cli Cli 5697INF Tiv Mgr Informix Cli Cli 5697INF Tiv Mgr Informix Svr Svr

5697DBT Tiv Mgr DB2 Svr Svr
 Tiv Monit Databases Value Unit
 Tiv Monit Databases 10 VU
 Tivoli Mgt Soltn Microsoft Sql TMP
 Tiv Mgt Soltn Ms Sql Proc

Current licensees

Ordering information for 5698-A79 MSU-based System z offerings

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
 Program PID: 5698-A79

Entitlement identifier	Description	License option/ pricing metric
S01215F	IBM Tivoli Management Services on z/OS	Basic OTC, Per Value Units
Orderable supply ID	Language	Distribution medium
S01215G	U. S. English	3480 Tape Cartridge

Subscription and Support PID: 5698-S53

Entitlement identifier	Description	License option/ pricing metric
S012558	IBM Tivoli Management Services on z/OS	SW Subscription and Support AS Decline SW S and S No Charge SW S and S Registration No Charge
Orderable supply ID	Language	Distribution medium
S012559	English	Hardcopy publication

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 Support 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.

Ordering information for the distributed products — Passport Advantage customers

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

Product information

Licensed function title	Product group	Product category
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IBM Tivoli Monitoring	Tivoli Availability and Performance	IBM Monitoring Solutions
IBM Tivoli Monitoring Active Directory Option	Tivoli Availability and Performance	IBM Monitoring Solutions
IBM Tivoli Monitoring for Applications	Tivoli Availability and Performance for Applications	IBM Monitoring Solutions
IBM Tivoli Monitoring for Databases	Tivoli Availability and Performance	IBM Monitoring Solutions for Databases

Program names	PID number	Charge unit description
IBM Tivoli Monitoring	5724-C04	Client Devices
IBM Tivoli Monitoring	5724-C04	Processor Day
IBM Tivoli Monitoring	5724-C04	10 Value Units
IBM Tivoli Monitoring	5724-C71	Processor Day
IBM Tivoli Monitoring Active Directory Option	5724-C71	10 Value Units
IBM Tivoli Monitoring Active Directory Option	5724-C71	10 Value Units
IBM Tivoli Monitoring for Applications	5724-B97	Value unit
IBM Tivoli Monitoring for Applications	5724-B97	Processor Day
IBM Tivoli Monitoring for Applications	5724-B97	Processor Day
IBM Tivoli Monitoring for Databases	5724-B96	Processor Day
IBM Tivoli Monitoring for Databases	5724-B96	10 Value Units

Charge metrics definitions

Value Unit

A Value Unit is a pricing charge metric for program license entitlements which is based upon the quantity of a specific designated measurement used for a given program. Each program has a designated measurement. The most commonly used designated measurement is a processor core. However, for select Programs, there are other designated measurements such as users, client devices, and messages. The number of Value Unit entitlements required for a program depends on how the program is deployed in your environment and must be obtained from a Value Unit table. You must obtain a PoE for the calculated number of Value Unit entitlements for your implementation. The Value Unit entitlements are specific to a program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

Processor (Value Unit)

A processor core is a functional unit within a computing device that interprets and executes instructions. A processor core 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. Not all processor cores require the same number of Value Unit entitlements. To calculate the number of Value Unit entitlements required, refer to the value unit table on the following Web site

http://www-142.ibm.com/software/sw-lotus/services/cwepassport.nsf/wdocs/pvu_table_for_customers

With full capacity licensing, a PoE must be acquired for the appropriate number of value units based on all activated processor cores available for use on the server.

Client device

A client device is a computing device that requests the execution of a set of commands, procedures, or applications from another computer system that is typically referred to as a server. Multiple client devices may share access to a common server. A client device generally has some processing capability or is programmable to allow a user to do work. Examples include, but are not limited to, notebook computers, desktop computers, desk side computers, technical workstations, appliances, automated teller machines, point-of-sale terminals, tills and

cash registers, and kiosks.

Additional Passport Advantage customer media pack entitlement details

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

Entitled maintenance offering description	Media packs description	Part number
5724-C04 Tivoli Monitoring Managed Processor	IBM Tivoli Monitoring V6.2 Multiplatform Multilingual	BJOGGML
5724-C04 Tivoli Monitoring Client Device	IBM Tivoli Monitoring V6.2 Multiplatform Multilingual	BJOGGML
5724-C96 Tivoli Monitoring for Databases Managed Processor	IBM Tivoli Monitoring for Databases V6.2 Multiplatform	BJOGWML
5724-B97 Tivoli Monitoring for Applications Managed Processor	IBM Tivoli Monitoring for Applications V6.2	BJOGVML
5724-B97 Tivoli Monitoring for Applications Managed Processor for Linux on Z	IBM Tivoli Monitoring for Applications V6.2	BJOGVML
5724-C71 Tivoli Monitoring Active Directory Option Managed Processor	IBM Tivoli Monitoring for Active Directory Option V6.2 Multiplatform Multilingual	BJOGXML

New licensees: Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Ordering information for Passport Advantage: Passport Advantage allows you to have a common anniversary date for Software Maintenance 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 maintenance coverage. Maintenance in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all software maintenance will renew at the common anniversary date and include twelve full months of maintenance.

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

The quantity to be specified for the Passport Advantage part numbers in the following table is per managed processor. To order for Passport Advantage, specify the desired part number and quantity.

Passport Advantage program licenses

IBM Tivoli Monitoring

Part description	Part number
10 Value Units License and SW Maintenance 12 Months	D5826LL
10 Value Units SW Maintenance Annual Renewal	E02HHLL
10 Value units SW Maintenance Reinstatement 12 Months	D5827LL
Client Devices License and SW Maintenance 12 Months	D56XHLL
Client Devices SW Maintenance Annual Renewal	E02CKLL
Client Devices SW Maintenance Reinstatement 12 Mon	D56XILL

IBM Tivoli Monitoring Universal Agent

Part description	Part number
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10 Value Units Annual SW Maint Rnwl	E027SLL
10 Value Units Lic and SW Maint 12 Mo	D561YLL
10 Value Units License and SW Maintenance 12 Months	D58C5LL
10 Value Units SW Maint Reinstate 12 Mo	D561ZLL
Client Device Annual SW Maint Rnwl	E00JLL
Client Device Lic and SW Maint 12 MO	D51RWLL
Client Device SW Maint Reinstate 12 MO	D51RYLL
Client Devices License and SW Maintenance 12 Months	D57SWLL
F/IBM Director 10 Value Units Trdup Lic and SW Maint 12 Mo	D56PDLL

IBM Tivoli Monitoring Active Directory Option

Part description	Part number
IBM Tivoli Mon Active Directory OPT 10 Value Units SW Maint Reinstate 12 Mo	D562VLL
IBM Tivoli Mon Active Directory Option 10 Value Units Annual SW Maint Rnwl	E0284LL
IBM Tivoli Mon Active Directory Option 10 Value Units Lic and SW Maint 12 Mo	D562RLL
IBM Tivoli Monitoring ADO 10 VU Lic and SW Maint 12 MO f/Tivoli Mon Expr Svr	D58C8LL

IBM Tivoli Monitoring for Databases

Part description	Part number
IBM Tivoli Monitoring For Databases 10 Value Units Annual SW Maint Rnwl	D027ZLL
IBM Tivoli Monitoring For Databases 10 Value Units Lic and SW Maint 12 Mo	D562GLL
IBM Tivoli Monitoring For Databases 10 Value Units SW Maint Reinstate 12 Mo	D562HLL
ITM for Databases 10 VU Lic and SW Maint 12 MO f/Tivoli Mon Express Svr	D58C6LL

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

Part description	Part number
IBM Tivoli Monitoring Active Directory Option V6.2 MP, Multilingual	BJOGXML
IBM Tivoli Monitoring V6.2 Media Pack Multiplatform, Multilingual	BJOGGML
IBM Tivoli Monitoring for Applications V6.2 Multiplatform, Multilingual	BJOGVML
IBM Tivoli Monitoring for Databases V6.2 Multiplatform, Multilingual	BJOGWML

IBM Tivoli Monitoring is also available via Web download from Passport Advantage.

Cross-platform product for use on zSeries

Order the part numbers that follow when there is an intention to acquire this cross-platform product for deployment on the zSeries or S/390 platform. This set of part numbers provides the identical supply and authorization as the other set in this announcement. The distinction is to identify the planned deployment platform.

Program name/description	Part number
IBM Tivoli Monitoring Linux on Series z 10 VU SW Maint Reinstate 12 Mo	D5627LL
IBM Tivoli Monitoring Linux on Series z 10 Value Units Annual SW Maint Rnwl	E027ULL
IBM Tivoli Monitoring Linux on Series z 10 Value	D5620LL

Units Lic and SW Maint 12 Mo
 Tivoli Monitoring For Appl Linux on Series z VU SW D5629LL
 Maint Reinstate 12 Mo
 Tivoli Monitoring For Appl Linux on Series z Value D5628LL
 Unit Lic and SW Maint 12 Mo
 Tivoli Monitoring For Appl Linux on Series z Value E027VLL
 Unt Annual SW Maint Rnwl

IBM Tivoli Monitoring is also available via Web download from Passport Advantage.

On/Off Capacity on Demand (CoD)

IBM Tivoli Monitoring

Part description	Part number
IBM Tivoli Monitoring Processor Day 00CoD Temp Use Chrg	ASPS6LL
IBM Tivoli Monitoring Active Directory Option Processor Day 00COD Temp Use Charge	ASPT8LL
ITM for Applications Processor Day per Use-DAY, On Off Capacity on demand	ASPT2LL
IBM Tivoli Monitoring for Databases Per Processor DAY 00COD Temp Use Chrg	ASPU0LL

Basic machine-readable material

Customization option for OS/390: Select the following feature number to customize your order if running on the OS/390 platform. This feature can be specified on the initial or MES orders.

Feature number	Description
3450	Satellite Electronic Delivery

Customized offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for electronic delivery, where ShopzSeries product ordering is available. For more details on electronic delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the customized offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs — 3480, 3480 Compressed, 3490E, 3590, 3592*
- ServerPacs — 3480, 3480 Compressed, 3490E, 3590, 3592*
- SystemPacs — 3480, 3480 Compressed, 3490E, 3590, 3592*

* 3592 is highest density media, which will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

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 inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac 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.

Licensing: IBM International Program License Agreement including the License Information (LI) document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

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

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for 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 provides for support with ongoing access to releases and versions of the program. IBM includes one year of Software Maintenance with the initial license acquisition of each program acquired. The initial period of 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.

S/390 and System z IBM Operational Support Services — SoftwareXcel is an option if you desire added services.

License Information form number: L-FKAR-75EL4P

The program's LI will be available for review on the IBM Software License Agreement Web site

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

Terms and conditions for the host product

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. Consult the IBM Software Support Guide for further information at

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

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

Program support: Enhanced support, called Subscription and Support, includes telephone assistance (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. You will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee: If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (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.

Authorization for use on home/portable computer: You may not copy and use this program on another computer without paying additional license fees.

Volume orders (IVO): No

IBM International Passport Advantage Agreement

Passport Advantage applies: Yes, and through the Passport Advantage Web site at

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

Software Maintenance applies: Yes

Software Maintenance, previously referred to as Software Subscription and Technical Support, is now included in the Passport Advantage Agreement. Installation and technical support for the products announced in this announcement is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity by providing voice or electronic access into the IBM support organizations.

IBM includes one year of Software Maintenance with the initial license acquisition of each program acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option.

While your 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 Guide at

<http://techsupport.services.ibm.com/guides/handbook.html>

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 additional information about the Passport Advantage Agreement, visit the Passport Advantage Web site at

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

All distributed software licenses include Software Maintenance (Software Subscription and Technical Support) 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. For additional information, refer to Software Announcement 201-201, dated July 10, 2001, Changes to Distributed Software Products Model for Products Outside Passport Advantage.

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 information section.

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 the Web site

<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 machine(s) where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to The System/370, System/390, and System z Machine Exhibit (Z125-3901), or visit the **Mainframes** section of the System z Exhibits Web site

<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.

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 environment the System z IPLA program executes.

An environment is defined as either a single or standalone 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:

1. That meets the criteria defined in Hardware Announcement [198-001](#), dated January 13, 1998.
2. 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.

On/Off Capacity on Demand

To be eligible for On/Off Capacity on Demand pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand — Software (Z125-6611) must be signed prior to use.

Terms and conditions for the distributed products

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Licensing: IBM International Program License Agreement including the License Information (LI) document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

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

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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. Consult the IBM Software Support Guide for further information at

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

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 will be available for a minimum of three years from the general availability date, as long as your Software Maintenance is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and

operation of the program product. Software Maintenance also provides you with access to updates, 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 the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program.

Copy and use on home/portable computer: No

Volume orders (IVO): No

Passport Advantage applies: Yes, and through the Passport Advantage Web site at

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

Usage restriction: Yes

Software Maintenance applies: Yes

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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 Web site at

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

System i™ Software Maintenance applies: No

Variable charges apply: No

Educational allowance available: Not applicable

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