Software Announcement
September 27, 2005

The IBM Tivoli Monitoring V6.1 solution is the next generation of IBM Tivoli's Monitoring Family of products

Overview

The IBM Tivoli® Monitoring V6.1 solution is the next generation of IBM Tivoli's family of products that help monitor and manage critical hardware and software in distributed environments.

Products included in the IBM Tivoli Monitoring V6.1 solutions include:

- IBM Tivoli Monitoring V6.1
- IBM Tivoli Monitoring for Databases V6.1
- IBM Tivoli Monitoring for Messaging and Collaboration V6.1
- IBM Tivoli Monitoring Active Directory Option V6.1

The major enhancements of this release include:

- Ease of use — The new operator user interface to help users to quickly isolate and resolve potential performance problems
- Visualization of information — Visibility into the monitoring infrastructure focusing on both performance and availability management
- Increased breadth of monitoring — More critical resources and performance metrics across disparate platforms throughout the enterprise
- Reduced total cost of ownership and improved time to value — Simplified installation, configuration, and lightweight agent rule deployment, with self-monitoring capabilities to help you reduce total IT operational costs
- Automated programmatic upgrade of Distributed Monitoring V3.7
- Integration of products and workflows — The Tivoli Enterprise™ Portal bringing together monitoring and management of both mainframe and distributed platforms to a single console, including, tighter integration with Tivoli Event Console, and extensions to IBM Tivoli Monitoring V5 monitoring infrastructures

Key prerequisites

Refer to the **Hardware requirements** section.

Planned availability dates

- November 8, 2005 (electronic software delivery)
- November 18, 2005 (media and documentation)

At a glance

IBM Tivoli Monitoring V6.1 can help you:

- Boost your value to the business — Effectively link together IT Ops services, processes, skills, and tools
- Consolidate management under a revolutionary, easy-to-use portal
- Customize the rich visualization of availability information
- Benefit from hundreds of out-of-the box best practices
- Develop your own customizable work flows via an intuitive, GUI
- Access an easy-to-use warehouse with advanced reporting capability
- Experience a quick, straightforward deployment that is easy to manage
- Provide a clear path for existing IBM Tivoli distributed monitoring customers to leverage the new capabilities
- Enhance globalization

For ordering, contact:
Your IBM representative or the Americas Call Centers at

800-IBM-CALL Reference: YE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.

Description

Tivoli software from IBM raises the bar for monitoring many of the leading operating systems, databases, and applications with our next generation of IBM Tivoli Monitoring solutions. Products included in the IBM Tivoli Monitoring V6.1 solutions include:

IBM Tivoli Monitoring V6.1

- UNIX®
- Microsoft™ Windows™
- i5/OS™
- Linux™
- Linux on z

IBM Tivoli Monitoring for Databases V6.1

- DB2®
- Oracle
- Microsoft SQL
- Sybase

IBM Tivoli Monitoring for Messaging and Collaboration V6.1

- Microsoft Exchange

IBM Tivoli Monitoring Active Directory Option V6.1

IBM Tivoli Monitoring V6.1: IBM Tivoli Monitoring V6.1 is built on a new lightweight, highly scalable architecture that is comprised of various components including the Tivoli Enterprise Portal, the Tivoli Enterprise Portal Server, the Tivoli Enterprise Management Server, and monitoring agents. The Tivoli Enterprise Portal Server manages the contents and GUI presentation of the browser and desktop clients.

Monitoring data from applications and resources from systems and subsystems is collected by the monitoring agents and are passed on to the Tivoli Enterprise Management Server for data collection, filtering, correlation, and root cause analysis.

With IBM Tivoli Monitoring V6.1 comes a new Tivoli Data Warehouse component based on a simplified database structure. The new data warehouse provides configuration and collection improvements. It delivers data for analysis and reporting through the IBM Tivoli Enterprise Portal. Administrative tasks for data aggregation, summarization, and pruning of historical data ease the management of long term data.

Enhancements include:

a) Simplified installation, intuitive interface, and simplified monitoring and management capabilities using simple point-and-click functions significantly improving time to value

b) Delivers new GUI via the IBM Tivoli Enterprise Portal component. This common, flexible and easy-to-use browser interface helps users to quickly isolate and resolve potential performance problems, across host and distributed platforms. Features of the Tivoli Enterprise Portal include:

Portal workspaces: Helps to quickly pull together metrics, dynamic charts, tables, and graphics while investigating specific performance problems and availability issues from multiple vantage points across heterogeneous platforms within the enterprise. Workspaces can be customized and stored to contain views of critical events and conditions with user-selectable charts and graphs. Personalized workspaces help users to:

- View problems from multiple perspectives including enterprise, platform, and resource views-charts, graphics and dynamic tables enable substantial insight
- Intuitively drill down to the source of contention and other problems
- identify trends and develop capacity plans by leveraging views of historical data and statistics

This helps optimize staff productivity and application availability by minimizing the time spent hunting down the causes of slow performance.

Situations: IBM Tivoli Monitoring V6.1 features supplied and customizable situations that you can use to detect and repair problems as they happen. Alerts can be tailored easily to help your environment and facilitate automatic resolution of recurring problems. Features that help you proactively manage your environment include:

- Out-of-the box supplied situations include a combination of metrics and thresholds to trigger, identify, notify, and cure problem prevention mechanism. Based on industry best practices, they allow for a superior and robust management system.
- Situation Editor is included to setup your own intelligent alerts and thresholds based on detailed and/or/logic that gives you the power to create granular notification and eliminate false alarms.
- Take Action resolves recurring problems by running built-in scripts, or new scripts which can be easily created.
- Expert Advice — When you receive an alert of a detailed explanation of the problem and potential fixes, use knowledge our of-the-box or edit the feature to preserve solutions specific to your environment.

Reporting: Advanced integrated reporting capabilities for both real-time and historical data collection through the Tivoli Data Warehouse component. Reports can be customized for user preferences so you see only the data that is important to you.

Workflow Automation: Enables you to solve complex system problems automatically using automated system processes called policies. Policies can be designed using the Workflow Editor, perform actions, schedule work to be performed by users or automate manual tasks.

c) The new smaller footprint does not require Tivoli Management Enterprise Framework to reduce total cost of ownership. More efficient data collection results in lower memory usage and CPU Utilization on managed systems. It does not require the Tivoli Framework for operation and deployment, reducing operational complexity.

d) Automatic IBM Tivoli Monitoring agent and patch deployment throughout your distributed enterprise.

e) Command line interface for improved management of your monitoring environment, including the ability to configure individual agents.

f) Programmable upgrade for existing Distributed Monitoring users to the IBM Tivoli Monitoring V6.1 solutions to simplify and ease administration of upgrading the monitoring infrastructure.

g) Extends the IBM Tivoli Monitoring V 5.x environments. The resource model health and resource model metrics available from IBM Tivoli Monitoring 5.x environments are visualized into the Tivoli Enterprise Portal, and integrated into the new Tivoli Data Warehouse, along with the other capabilities of IBM Tivoli Monitoring V6.1.

h) Enhanced platform support for including infrastructure components including, Linux, z/Series support, and Linux on z/Series support.

Note: z/Series platform support is separately provided by the IBM Tivoli Monitoring Services on z/OS® V6.1 program, and is also available for use with the mainframe OMEGAMON® suite of offerings.

i) Integration of the Tivoli Event Console into the Tivoli Enterprise Portal. Situations can send events directly to the Tivoli Enterprise Console®.

k) Consolidated resource monitoring and management across the enterprise of mainframe and distributed environments via a single console, the Tivoli Enterprise Portal. The tighter integration with the IBM Tivoli Event Console helps bring true end-to-end management, increased efficiency and effectiveness of Availability Management and supporting processes, of enterprise systems and applications across the enterprise.

IBM Tivoli Monitoring for Databases V6.1

The IBM Tivoli Monitoring for Databases product consists of four management agents that help ensure the availability and optimal performance of IBM DB2, Oracle, Microsoft SQL Server, and Sybase database servers. The use of these features can help to eliminate the typical Database Administrator (DBA) dilemma of determining what to monitor, when to monitor, and how to interpret and act upon the monitor results, leaving more time for the DBA to focus on more complex, less repetitive tasks. The primary objective is to provide routine, consistent monitoring and to help anticipate and correct problems before database performance and customer confidence is degraded.

All data captured by the management agents, including both real-time and historical, is delivered through the IBM Tivoli Enterprise Portal browser. Each of the management agents provides an “out-of-the-box” set of situations (based on IBM best practices) to help provide quick deployment and activation. Custom situations based on user-definable thresholds, and actions can also be defined by the DBA.

IBM Tivoli Monitoring for Databases V6.1 can help:

- Monitor critical performance data and the status of components of database servers.
- Provide real-time status and reporting on the availability and performance of critical database components through best-practices monitoring of key performance metrics.
- Notify administrators and take automated actions. Out-of-box identification of common problems notifies administrators of potential issues and automates actions to help implement fixes before problems affect end users.
- Collect monitoring data for use in historical reporting, performance analysis, trend prediction, and enterprise-wide business impact analysis.

Through the implementation of the IBM Tivoli Monitoring for Databases product, DBAs can be alerted when key performance and resource allocation problems are detected, and customers will maximize their return on investment by assisting them through increasing the efficiency of their IT staff, improving compliance to service-level objectives, and reducing costs of database system administration and deployment.

IBM Tivoli Monitoring for Messaging and Collaboration V6.1

IBM Tivoli Monitoring for Messaging and Collaboration builds upon the new IBM Tivoli performance and availability monitoring architecture, and provides the monitoring and management tools to help improve performance, availability, and administration for Microsoft Exchange Servers. It includes support for the new IBM Tivoli Data Warehouse component providing enterprise-wide access to data for historical and trending analysis, reporting, and graphing.

All data captured by the monitoring agents, including both real-time and historical is delivered through the IBM Tivoli Enterprise Portal browser component. The incorporation of new ease-of-use capabilities simplifies product installation, configuration, and the creation and customization of situations.

This product release delivers a management agent which helps enable administrators to ensure the availability and optimal performance Microsoft Exchange servers.

The Exchange monitoring agents collect and analyze the following Microsoft Server specific information:

- Address book activity
- Cache statistics
- Mail data
- Connection statistics
- Event Service activity
- Internet protocols data
- Internet mail statistics
- MS Mail Connector Message Transfer Agent statistics
- MS Mail Interchange data
- Message traffic statistics
- WEB information

IBM Tivoli Monitoring for Messaging and Collaboration V6.1

- Helps simplify application and system management by managing applications and resources across your system.
- Helps to increase profits by providing you with real-time access to reliable, up-to-the-minute data that allows you to make faster, better informed operating decisions.
- Helps to enhance system performance by letting you integrate, monitor, and manage your environment, networks, console, and mission-critical applications. The monitoring agent alerts the IBM Tivoli Enterprise Console when conditions in your environment meet threshold-based conditions. These alerts notify your system administrator to limit and control system traffic. You can view data gathered by the monitoring agent in reports and charts that inform you of the status of your managed systems.
- Helps to enhance efficiency by monitoring diverse networks. Depending on your Tivoli Enterprise Portal configuration, you may be able to collect and monitor data across platforms. The monitoring agent gathers and filters status information at the managed system rather than at the Hub, eliminating unnecessary data transmission and sending only data that is relevant to changes in status conditions.

IBM Tivoli Monitoring Active Directory Option V6.1

IBM Tivoli Monitoring Active Directory Option delivers a management agent which helps enable administrators to ensure the availability and optimal performance of Microsoft Active Directory Servers. It offers a central point of management for your Microsoft Active Directory

service. It offers a comprehensive means for gathering exactly the information you need to detect problems early and to prevent them.

Active Directory Monitoring Agent lets you monitor the availability and performance of all the systems in your enterprise from one or several designated workstations. It also provides useful historical data that you can use to track trends and to troubleshoot system problems.

IBM Tivoli Monitoring Active Directory Option can help:

- Monitor critical performance data and the status of components of Microsoft Active Directory servers.
- Provide real-time status and reporting on the availability and performance of critical Active Directory server components through best-practices monitoring of key performance metrics.
- Notify administrators and take automated actions. Out-of-box identification of common problems notifies administrators of potential issues and automates actions to help implement fixes before problems affect end users.
- Collect monitoring data for use in historical reporting, performance analysis, trend prediction, and enterprise-wide business impact analysis

The IBM Tivoli Enterprise Portal is the interface for IBM Tivoli Monitoring products. By providing a consolidated view of your environment, the Tivoli Enterprise Portal permits you to monitor and resolve performance issues throughout the enterprise.

Accessibility by people with disabilities

The IBM Tivoli Monitoring products are capable, when used in accordance with IBM′s associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Section 508 of the U.S. Rehabilitation Act

IBM Tivoli Monitoring is capable as of November 18, 2005, when used in accordance with IBM′s associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

Product positioning

The IBM Tivoli Monitoring V6.1 solutions provide rapid time to value and reduced total cost of ownership through a simplified install, new GUI, and framework-less lightweight infrastructure for the next generation of IBM monitoring products. The new look of IBM Tivoli Monitoring V6.1, is based on the Tivoli Enterprise Portal, a flexible and easy-to-use browser interface that allows users to quickly isolate and resolve potential performance problems through consolidated resource monitoring and management for both distributed and mainframe environments.

Increased breadth of monitoring allows for management of more critical resources and provides more performance metrics across disparate platforms. The new IBM Tivoli Monitoring V6.1 is a simplification of creating customer problem signs. It puts complex customization of powerful monitoring tools into the hands of more operators. This requires significantly less programmer-like activity and training to successfully customize the product. Programmable upgrade capabilities simplify and ease the administration for customers who are upgrading to IBM Tivoli Monitoring V6.1 from Distributed Monitoring V3.7.

Customers running IBM Tivoli Monitoring V5.x are interoperable with IBM Tivoli Monitoring V6.1 and can visualize resource model health and metrics via the Tivoli Enterprise Portal. Tight integration with the IBM Tivoli Event Console brings true end-to-end management, increased efficiency, and effectiveness of Availability Management and supporting processes, of enterprise systems and applications across the enterprise.

The ability to manage the enterprise end-to-end from a single easy-to-use portal interface using IBM Tivoli Monitoring V6.1 strengthens Tivoli′s ability to compete in the performance and availability market against Hewlett-Packard, Computer Associates, BMC, and Microsoft. These solutions also allow for entry into small- and medium-sized businesses who look for comprehensive, lightweight monitoring solutions with real-time and historical reporting capabilities delivered through a single portal interface.

Statement of direction

An important consideration for future updates to IBM Tivoli Monitoring is to include monitoring of clustered systems, cluster managers and clustered applications. Capabilities under consideration are:

- Integration with cluster management applications
- Real-time analysis of application and cluster status, including customizable health indications
- In-depth metrics for applications that are cluster-aware
- Monitor Cluster Node loading behavior in aggregate and trigger on significant variation
- Real-time notification of status changes in clusters or applications running in the clusters
- In-depth historical analysis of cluster resiliency, resource usage and capacity
- Support for MSCS, HACMP™, Veritas and other clustering applications

All statements regarding IBM′s plans, directions, and intent are subject to change or withdrawal without notice.

IBM US Announcement Supplemental Information

September 27, 2005

Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage® Web site

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

Publications

The following can be ordered from the IBM Publications Center:

Publication title	Order number	Availability date
Configurating IBM Tivoli® Enterprise Monitoring Server on z/OS®	SD88-6713	12/16/2005
Exploring IBM Tivoli Monitoring	SC32-1803	11/08/2005
Exploring IBM Tivoli Monitoring	SC11-2414	12/16/2005
IBM Tivoli Enterprise Monitoring Server on z/OS	SC11-2350	12/16/2005
IBM Tivoli Monitoring Administrator's Guide	SC13-3476	12/16/2005
IBM Tivoli Monitoring Administrator's Guide	SC40-2044	12/16/2005
IBM Tivoli Monitoring Administrator's Guide	SA30-2685	12/16/2005
IBM Tivoli Monitoring Administrator's Guide	SC32-9408	11/08/2005
IBM Tivoli Monitoring Administrator's Guide	SC11-2347	12/16/2005
IBM Tivoli Monitoring Administrator's Guide	SD88-6699	12/16/2005
IBM Tivoli Monitoring Installation and Setup Guide	GA30-2683	12/16/2005
IBM Tivoli Monitoring Installation and Setup Guide	GC13-3474	11/11/2005
IBM Tivoli Monitoring Installation and Setup Guide	GD88-6698	12/16/2005
IBM Tivoli Monitoring Installation and Setup Guide	G517-8344	12/16/2005
IBM Tivoli Monitoring Installation and Setup Guide	GC40-2042	12/16/2005
IBM Tivoli Monitoring Installation and Setup Guide	GC32-9407	11/08/2005
IBM Tivoli Monitoring Installation and Setup guide	GC11-2345	12/16/2005
IBM Tivoli Monitoring Passport Advantage Readme First	GA30-2853	12/16/2005
IBM Tivoli Monitoring Passport Advantage Readme First	GI11-3421	12/16/2005
IBM Tivoli Monitoring Problem Determination Guide	GC11-2348	12/16/2005
IBM Tivoli Monitoring Problem Determination Guide	GC32-9458	11/08/2005
IBM Tivoli Monitoring Problem Determination Guide	GC13-3477	12/16/2005
IBM Tivoli Monitoring Problem Determination Guide	GA30-2686	12/16/2005
IBM Tivoli Monitoring Problem Determination Guide	GD88-6710	12/16/2005
IBM Tivoli Monitoring Universal Agent User's Guide	SC11-3144	12/16/2005
IBM Tivoli Monitoring Universal Agent User's Guide	SA30-2689	12/16/2005
IBM Tivoli Monitoring Universal Agent User's Guide	SD88-6711	12/16/2005
IBM Tivoli Monitoring Universal Agent User's Guide	SC12-3587	12/16/2005
IBM Tivoli Monitoring Universal Agent User's Guide	SC11-2351	12/16/2005
IBM Tivoli Monitoring Universal Agent User's Guide	SC40-2046	12/16/2005
IBM Tivoli Monitoring User's Guide	SC13-3475	12/16/2005
IBM Tivoli Monitoring User's Guide	SC12-3586	12/16/2005
IBM Tivoli Monitoring User's Guide	SC11-3111	12/16/2005
IBM Tivoli Monitoring User's Guide	SD88-6700	12/16/2005
IBM Tivoli Monitoring User's Guide	SC40-2043	12/16/2005
IBM Tivoli Monitoring User's Guide	SC11-2346	12/16/2005

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.

Publication title	Order number	Availability date
IBM Tivoli Monitoring User's Guide	SC32-9409	11/08/2005
IBM Tivoli Monitoring User's Guide	SA30-2684	12/16/2005
IBM Tivoli Monitoring for Databases: DB2® Agent User's Guide	SC12-3588	12/16/2005
IBM Tivoli Monitoring for Databases: DB2 Agent User's Guide	SC11-2352	12/16/2005
IBM Tivoli Monitoring for Databases: DB2 Agent User's Guide	SC40-2047	12/16/2005
IBM Tivoli Monitoring for Databases: DB2 Agent User's Guide	SA30-2690	12/16/2005
IBM Tivoli Monitoring for Databases: DB2 Agent User's Guide	SC32-9449	11/08/2005
IBM Tivoli Monitoring for Databases: DB2 Agent User's Guide	SD88-6707	12/16/2005
IBM Tivoli Monitoring for Databases: DB2 Agent User's Guide	SC40-2048	12/16/2005
IBM Tivoli Monitoring for Databases: Microsoft™ SQL Server Agent	SD88-6709	12/16/2005
IBM Tivoli Monitoring for Databases: Microsoft SQL Server Agent	SC40-2050	12/16/2005
IBM Tivoli Monitoring for Databases: Microsoft SQL Server Agent User's Guide	SC11-3148	12/16/2005
IBM Tivoli Monitoring for Databases: Microsoft SQL Server Agent User's Guide	SC11-2355	12/16/2005
IBM Tivoli Monitoring for Databases: Microsoft SQL Server Agent User's Guide	SC12-3591	12/16/2005
IBM Tivoli Monitoring for Databases: Microsoft SQL Server Agent User's Guide	SC32-9452	11/08/2005
IBM Tivoli Monitoring for Databases: Oracle Agent User's Guide	SC11-2353	12/16/2005
IBM Tivoli Monitoring for Databases: Oracle Agent User's Guide	SC11-3146	12/16/2005
IBM Tivoli Monitoring for Databases: Oracle Agent User's Guide	SD88-6708	12/16/2005
IBM Tivoli Monitoring for Databases: Oracle Agent User's Guide	SC32-9450	11/08/2005
IBM Tivoli Monitoring for Databases: Oracle Agent User's Guide	SA30-2691	12/16/2005
IBM Tivoli Monitoring for Databases: Oracle Agent User's Guide	SC12-3590	12/16/2005
IBM Tivoli Monitoring for Databases: Sybase Server Agent User's Guide	SC32-9451	11/08/2005
IBM Tivoli Monitoring for Databases: Sybase Server Agent User's Guide	SC40-2049	12/16/2005
IBM Tivoli Monitoring for Databases: Sybase Server Agent User's Guide	SC11-2354	12/16/2005
IBM Tivoli Monitoring for Databases: Sybase Server Agent User's Guide	SC11-3147	12/16/2005
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SC32-9441	11/08/2005
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SC12-3589	12/16/2005
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SD88-6701	12/16/2005
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SA30-2696	12/16/2005
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SC12-3592	12/16/2005
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SC11-2358	12/16/2005
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SD88-6700	12/16/2005

Publication title	Order number	Availability date
IBM Tivoli Monitoring for Messaging and Collaboration: Microsoft Exchange Server Agent User's Guide	SC11-3149	12/16/2005
IBM Tivoli Monitoring: Active Directory Agent User's Guide	SA30-2697	12/16/2005
IBM Tivoli Monitoring: Active Directory Agent User's Guide	SD88-6702	12/16/2005
IBM Tivoli Monitoring: Active Directory Agent User's Guide	SC32-9444	11/08/2005
IBM Tivoli Monitoring: Active Directory Agent User's Guide	SC11-3150	12/16/2005
IBM Tivoli Monitoring: Active Directory Agent User's Guide	SC12-3593	12/16/2005
IBM Tivoli Monitoring: Active Directory Agent User's Guide	SC11-2359	12/16/2005
IBM Tivoli Monitoring: Active Directory Agent User's Guide	SC40-2051	12/16/2005
IBM Tivoli Monitoring: IBM Tivoli Monitoring 5.x Endpoint Agent User's Guide	SC11-2386	12/16/2005
IBM Tivoli Monitoring: IBM Tivoli Monitoring 5.x Endpoint Agent User's Guide	SD88-6715	12/16/2005
IBM Tivoli Monitoring: IBM Tivoli Monitoring 5.x Endpoint Agent User's Guide	SC32-9490	11/08/2005
IBM Tivoli Monitoring: IBM Tivoli Monitoring 5.x Endpoint Agent User's Guide	SC40-2062	12/16/2005
IBM Tivoli Monitoring: Linux™ OS Agent User's Guide	SC32-9447	11/08/2005
IBM Tivoli Monitoring: Linux OS Agent User's Guide	SD88-6705	12/16/2005
IBM Tivoli Monitoring: Linux OS Agent User's Guide	SC11-3153	12/16/2005
IBM Tivoli Monitoring: Linux OS Agent User's Guide	SC40-2054	12/16/2005
IBM Tivoli Monitoring: Linux OS Agent User's Guide	SC11-2362	12/16/2005
IBM Tivoli Monitoring: Linux OS Agent User's Guide	SA30-2700	12/16/2005
IBM Tivoli Monitoring: UNIX® Log Agent User's Guide	SC40-2055	12/16/2005
IBM Tivoli Monitoring: UNIX Log Agent User's Guide	SC11-2364	12/16/2005
IBM Tivoli Monitoring: UNIX Log Agent User's Guide	SC32-9471	11/08/2005
IBM Tivoli Monitoring: UNIX Log Agent User's Guide	SC12-3598	12/16/2005
IBM Tivoli Monitoring: UNIX Log Agent User's Guide	SC11-3112	12/16/2005
IBM Tivoli Monitoring: UNIX Log Agent User's Guide	SD88-6714	12/16/2005
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SA30-2699	12/16/2005
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SD88-6704	12/16/2005
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SC12-3596	12/16/2005
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SC11-3152	12/16/2005
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SC32-9446	11/08/2005
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SC11-2361	12/16/2005
IBM Tivoli Monitoring: UNIX OS Agent User's Guide	SC40-2053	12/16/2005
IBM Tivoli Monitoring: Upgrading from Tivoli Distributed Monitoring	GC32-9462	11/08/2005
IBM Tivoli Monitoring: Upgrading from Tivoli Distributed Monitoring	GC40-2045	12/16/2005
IBM Tivoli Monitoring: Upgrading from Tivoli Distributed Monitoring	GC11-2349	12/16/2005
IBM Tivoli Monitoring: Upgrading from Tivoli Distributed Monitoring	GD88-6712	12/16/2005
IBM Tivoli Monitoring: Windows™ OS Agent User's Guide	SC32-9445	11/08/2005
IBM Tivoli Monitoring: Windows OS Agent User's Guide	SC40-2052	12/16/2005
IBM Tivoli Monitoring: Windows OS Agent User's Guide	SA30-2698	12/16/2005
IBM Tivoli Monitoring: Windows OS Agent User's Guide	SC11-2360	12/16/2005
IBM Tivoli Monitoring: Windows OS Agent User's Guide	SC11-3151	12/16/2005
IBM Tivoli Monitoring: Windows OS Agent User's Guide	SC12-3594	12/16/2005
IBM Tivoli Monitoring: Windows OS Agent User's Guide	SD88-6703	12/16/2005

Publication title	Order number	Availability date
IBM Tivoli Monitoring: i5/OS™ Agent User's Guide	SC11-2363	12/16/2005
IBM Tivoli Monitoring: i5/OS Agent User's Guide	SC12-3597	12/16/2005
IBM Tivoli Monitoring: i5/OS Agent User's Guide	SA30-2701	12/16/2005
IBM Tivoli Monitoring: i5/OS Agent User's Guide	SC32-9448	11/08/2005
IBM Tivoli Monitoring: i5/OS Agent User's Guide	SD88-6706	12/16/2005
IBM Tivoli Quick Start Guide	SC32-1802	11/08/2005
IBM Tivoli Universal Agent API and Command Programming Reference Guide	SC32-9461	11/08/2005
IBM Tivoli Universal Agent User's Guide	SC32-9459	11/08/2005
IBM Tivoli Monitoring for Databases: DB2 Agent User's Guide	SC11-3145	12/16/2005
Introducing IBM Tivoli Monitoring	GI11-3422	12/16/2005
Introducing IBM Tivoli Monitoring, V6.1	GI11-4071	11/08/2005

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

The IBM Publications Notification System (PNS)

http://service5.boulder.ibm.com/pnsrege.nsf/messages/welcome

PNS enables subscribers to set up profiles of interest by order number/product number. PNS subscribers automatically receive e-mail notifications of all new publications defined in their profiles. These may then be ordered/downloaded from the Publications Center.

The PNS site is available in English and Canadian French.

Technical information

Hardware requirements

Vendor	Release	Server	Endpoint	Portal Server	Portal Client
IBM AIX(R) (32–64–bit)	5.1		X		
IBM AIX (32–64–bit)	5.2	X	X		
IBM AIX (32–64–bit)	5.3	X	X		
Sun Solaris (32–64–bit)	8	X			
Sun Solaris (32–64–bit)	9	X	X		
Sun Solaris (32–64–bit)	10	X	X		
Hewlett Packard HP–UX (32–64–bit)	11I		X		
Windows 2000 Professional Edition					X
Windows 2000 Server Edition		X	X	X	X
Windows 2000 Advanced Server Edition		X	X	X	X
Windows XP			X		X
Windows 2003 Advanced Server Edition		X	X	X	X
Windows 2003 Enterprise Server Edition		X	X	X	X
OS/400(R)	5.2		X		
OS/400	5.3		X		
z/OS	1.4	X	X		
z/OS	1.5	X	X		
z/OS	1.6	X	X		
z/OS	1.7	X	X		
Red Hat Linux Intel(TM) (32–bit)	2.1		X		
Red Hat Linux Intel 32–bit)	4	X	X	X	X
Red Hat Linux z/Series (31–bit)	3		X		
Red Hat Linux z/Series (64–bit)	3		X		
Red Hat Linux z/Series (31–bit)	4	X	X	X	
Red Hat Linux z/Series (64–bit)	4	X	X	X	
SLES Intel (32–bit)	8		X		
SLES zSeries(R) (31–bit)	8	X	X	X	
SLES zSeries (64–bit)	8	X			
SLES Intel (32–bit)	9	X	X	X	X
SLES zSeries (31–bit)	9	X	X	X	
SLES zSeries (64–bit)	9	X			

Supported Database Platforms Warehouse and Portal Server
DB2 8.1, DB2 8.2
MS SQL 2000
Oracle 9.2, 10.1 (warehouse only)

Supported Database Platforms Monitored Database Platforms
DB2 8.1, 8.2
Oracle 8i (8.1.7), 9i, 9i (2.0), 10g
MS SQL 7.0 Enterprise/Standard Edition SP2(R) and SP3,
MS SQL Server 2000 SP4
Sybase Server 11.9.2, 12.5, 12.5.2

Supported Messaging and Collaboration Environments

MS Exchange Server 2000 SP2, MS Exchange Server 2003

Supported Active Directory Environments

Active Directory 2000 and 2003

Planning information

Customer responsibilities: Software Maintenance, previously referred to as Software Subscription and Technical Support, is included in the Passport Advantage Agreement. Installation and technical support is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity, with voice and electronic access into IBM support organizations.

Packaging: The IBM Tivoli Monitoring products in this announcement are distributed with:

- International Program License Agreement (IPLA) (Z125-3301)
- License Information (LI) document
- media
- Publications: (refer to the **Publications** section)

Security, auditability, and control

The Tivoli Monitoring Products in this announcement use 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.

IBM Tivoli Enhanced Value-based Pricing Terminology

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

For example, all servers monitored with IBM Tivoli's monitoring product (IBM Tivoli Monitoring) require entitlements sufficient for those servers. Other IBM 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 IBM 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 IBM 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 IBM 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 @server® 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 IBM 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 IBM Tivoli application.

For servers with virtual or logical partitions, entitlements are required for all installed and activated processors on the server. For each IBM Tivoli application managing a clustered environment, licensing is based on the cumulative number of installed and activated processors on each server in the cluster for each IBM Tivoli application managing 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 customer's 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 definitions

Client Device or Client

Client Device or Client A client device is a computer system 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, personal digital assistants, automated teller machines, point-of-sale terminals, tills and cash registers, and KIOSKs.

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 should 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.

Millions of Service Units (MSU)

An MSU is defined as millions of Central Processing Unit (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, visit

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.

Processor

Processor ("per Processor" charging under Full Capacity) In Full Capacity charging, Proof of Entitlements (PoE) 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 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.

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.

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 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 on the blades with which the program is affiliated.

Server

A server is a computer system that executes requested procedures, commands, or applications to one or more clients and/or other devices over a network. Examples include, but are not limited to, file servers, print servers, mail servers, database servers, application servers, and Web servers.

Standby or Backup Systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm, and hot. In the 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 another license or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer′s control, even if they are 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 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 metric used to compute license quantities, is program specific, and is typically only used on products managing zSeries systems.

Product Web site

A complete list of products and licensing documents is available at Web site

http://www.ibm.com/software/tivoli/products

Passport Advantage: Through the Passport Advantage Agreement, customers may receive discounted pricing based on their total volume of eligible products, across all IBM brands, acquired worldwide. The volume is measured by determining the total "Passport Advantage points value" of the applicable acquisitions. Passport Advantage points are only used for calculating the entitled Passport Advantage discount.

To determine the required Tivoli product configuration under Passport Advantage, the Tivoli Enhanced Value-based Pricing Model applies. The customer's environment is evaluated on a per-product basis.

Use the following two-step process to determine the total "Passport Advantage points value:"

1. Analyze the customer environment to determine the number of Tivoli Management Points or other charge unit for a product. The quantity of each product's part numbers to be ordered is determined by that analysis.
2. Order the Passport Advantage part numbers. A Passport Advantage point value, which is the same worldwide for a specific part number regardless of where the order is placed, is assigned to each Tivoli product part number. The Passport Advantage point value for the applicable part number multiplied by the quantity for that part number will determine the Passport Advantage points for that Tivoli product part number. The sum of these Passport Advantage points determines the "Passport Advantage point value" of the applicable Tivoli product authorizations which then may be aggregated with the point value of other applicable Passport Advantage product acquisitions to determine the total "Passport Advantage points value."

The discounted pricing available through Passport Advantage is expressed in the form of Suggested Volume Prices (SVPs), which vary depending on the SVP level. Each SVP level is assigned a minimum total Passport Advantage point value, which must be achieved, in order to qualify for that SVP level.

Media packs and documentation packs do not carry Passport Advantage points and are not eligible for SVP discounting.

For additional information on Passport Advantage, visit

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

The following Passport Advantage part number categories may be orderable:

- License and Software Maintenance 12 Months — This is the product authorization with maintenance to the first anniversary date.
- Annual Software Maintenance Renewal — This is the maintenance renewal for one anniversary that applies when a customer renews their existing coverage period prior to the anniversary date at which it expires.
- Software Maintenance Reinstatement 12 Months — This is for customers who have allowed their Software Maintenance to expire, and later wish to reinstate their Software Maintenance.
- Media packs — these are the physical media, such as CD-ROMs, that deliver the product's code.
- Documentation packs — These contain printed documentation such as the *User's Guide* and *Release Notes*.
- Custom Build Registration — this is used with products that have an IBM zSeries component. Ordering this part number results in a process to enable the customer to receive the zSeries code via the z/OS Customized Offerings packaging techniques, that is, ServerPac, SystemPac®, or the Custom Build Product Delivery Option (CBPDO).

Exceptions to the Environment-Managed Licensing Model: IBM Tivoli products are priced based on the environment-managed licensing model and follow the definitions laid out in the **IBM Tivoli Enhanced Value-based Pricing terminology definitions** section of this announcement, with the following exceptions:

1. IBM Tivoli NetView® — Count the processors in the server(s) in which IBM Tivoli NetView runs, plus the number of network nodes managed.
2. IBM Tivoli Switch Analyzer — Count the processors in the server(s) in which IBM Tivoli Switch Analyzer runs, plus the number of ports managed.

3. IBM Tivoli Access Manager for e-business — Count either the number of registered users or the number of processors in the server(s) in which IBM Tivoli Access Manager for e-business runs, but not both.
4. IBM Tivoli Identity Manager — Count either the number of registered users or the number of processors in the server(s) in which IBM Tivoli Identity Manager runs, but not both.
5. IBM Tivoli Monitoring for Transaction Performance — The Synthetic Transaction Investigator Player/Site Investigator requires a 2-processors entitlement.
6. IBM Tivoli Access Manager for Operating Systems — Count the processors in each system to be secured that operates with a UNIX-based operating system, including both clients and servers.

Pricing examples

IBM Tivoli Monitoring Family

IBM Tivoli Monitoring Solutions

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 specific application area(s) (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 which deploys any or all of the application agents provided in a specific IBM Tivoli Monitoring for (specific application) Program.

The IBM Tivoli Monitoring Solutions are licensed by the Managed Processor.

Pricing Example 1

IBM Tivoli Monitoring Program

The customer's core environment requiring the IBM TIvoli Monitoring Program includes:

Distributed servers

- Twenty uniprocessors
- Sixty-five 2-way servers
- Twelve 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 uni-Processor IFLs running LINUS (also known as, zLinux or Linux on zSeries)

Note: zLinux or Linux on zSeries offerings may not be available for all Tivoli programs. This licensing example assumes such availability. Linux on zSeries offerings have distinctly orderable part numbers in Passport Advantage, and should be used when ordering entitlements for IFLs running Linux.

Pricing for programs without a Linux on zSeries offering will exclude the z800 Server entitlement requirement indicated in the following text:

The customer requires the following entitlements for the IBM Tivoli Monitoring Program (266 managed processors):

Systems Managed	Quantity in Customer Environment	Processor Entitlements Required
Uniprocessor	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 applications)	1	8
24–way	1	24
z800 Server with 2 uni–Processor IFLs (requires Linux on zSeries availability)		
Total Processor Entitlements		266

Pricing Example 2

IBM Tivoli Monitoring for (specific application) Programs

In addition to the core environment described above (266 Managed Processor entitlement 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 the following entitlements:

Systems Managed	Quantity in Customer Environment	Processor Entitlements Required
2–way	10	20
Total Processor Entitlements		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 20 additional Managed Processor entitlements 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.

Ordering information

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

Product information

Licensed function title	Product group	Product category
Tivoli Monitoring for Messaging and Collaboration	Availability And Performance	Tivoli Monit Messaging and Collaboration
Tivoli Monitoring for Databases	Availability And Performance	Tivoli Monitoring For Databases
Tivoli Monitoring Active Directory Option	Availability And Performance	Tivoli Monitoring Solutions
Tivoli Monitoring	Availability And Performance	Tivoli Monitoring Solutions

Program name	PID number	Charge unit description
Tivoli Monitoring	5724–C04	Managed Processor(s)
Tivoli Monitoring	5724–C04	Managed Processor(s)
Tivoli Monitoring	5724–C04	Processor Day
Tivoli Monitoring	5724–C04	Client Device(s)
Tivoli Monitoring Active Directory Option	5724–C71	Managed Processor(s)
Tivoli Monitoring Active Directory Option	5724–C71	Processor Day
Tivoli Monitoring for Databases	5724–B96	Processor Day
Tivoli Monitoring for Databases	5724–B96	Managed Processor(s)
Tivoli Monitoring for Messaging & Collaboration	5724–B98	Managed Processor(s)
Tivoli Monitoring for Messaging & Collaboration	5724–B98	Processor Day

Charge metrics definitions

Processor

In Full Capacity charging — PoEs 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.

1. If there are program components included in the offering whose function is not to be included in the charge metric, these must be listed in the program-unique terms of the License Information.
2. 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.
3. Multi-core technology allows two or more processors (commonly called "cores") to be active on a single silicon chip. Unless otherwise announced, 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.
4. In the zSeries 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 on the blade on which the Program is run.

Per managed processor charging under Full Capacity

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 PoEs are defined both in the **Prices** section 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' 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 on the blade(s) with which the Program is affiliated.

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 Offerings Description	Media Packs Description	Part number
5724–C04 Tivoli Monitoring Managed Processor	IBM Tivoli Monitoring V6.1.0 Multiplatform Multilingual	BJOFVML
5724–C04 Tivoli Monitoring Client Device	IBM Tivoli Monitoring V6.1.0 Multiplatform Multilingual	BJOFVML
5697–EMN Tivoli Distributed Monitoring Server	IBM Tivoli Monitoring V6.1.0 Multiplatform Multilingual	BJOFVML
5697–EMN Tivoli Distributed Monitoring Client	IBM Tivoli Monitoring V6.1.0 Multiplatform Multilingual	BJOFVML
5698–EMN Tivoli Distributed Monitoring TMP	IBM Tivoli Monitoring V6.1.0 Multiplatform Multilingual	BJOFVML
5724–C96 Tivoli Monitoring for Databases Managed Processor	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5697–MSS Tivoli Manager for Microsoft SQL Server	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML

Entitled Maintenance Offerings Description	Media Packs Description	Part number
5697–MSS Tivoli Manager for Microsoft SQL Client	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5698–MSS Tivoli Manager for Microsoft SQL Server TMP	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5697–ORA Tivoli Manager for Oracle Server	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5697–ORA Tivoli Manager for Oracle Client	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5698–ORA Tivoli Manager for Oracle TMP	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5697–DBT Tivoli Manager for DB2 Server	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5697–DBT Tivoli Manager for DB2 Client	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5698–DBT Tivoli Manager for DB2 TMP	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5697–INF Tivoli Manager for Informix(TM) Server	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5697–INF Tivoli Manager for Informix Client	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5698–INF Tivoli Manager for Informix TMP	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5698–MSQ Tivoli Management Solution for Microsoft SQL TMP	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5724–C38 Tivoli Management Solution for Microsoft SQL Processor	IBM Tivoli Monitoring for Databases V6.1.0 Multiplatform Multilingual	BJOFXML
5724–C98 Tivoli Monitoring for Messaging and Collaboration Managed Processor	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5697–NOT Tivoli Manager for Domino(TM) Server	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5697–NOT Tivoli Manager for Domino Client	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5698–NOT Tivoli Manager for Domino TMP	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5698–MSD Tivoli Management Solution for Domino Server	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5697–EXC Tivoli Manager for Exchange Server	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5697–EXC Tivoli Manager for Exchange Client	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5698–EXC Tivoli Manager for Exchange TMP	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5698–EXC Tivoli Manager for Exchange Processor	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5698–MSE Tivoli Management Solution for Exchange TMP	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5698–MSE Tivoli Management Solution for Exchange Processor	IBM Tivoli Monitoring for Messaging and Collaboration V6.1.0 Multiplatform Multilingual	BJOFYML
5724–C71 Tivoli Monitoring Active Directory Option Managed Processor	IBM Tivoli Monitoring Active Directory Option V6.1.0 Multiplatform Multilingual	BJOFWML
5697–EMN Tivoli Distributed Monitoring Server	IBM Tivoli Monitoring Active Directory Option V6.1.0 Multiplatform Multilingual	BJOFWML
5697–EMN Tivoli Distributed Monitoring Client	IBM Tivoli Monitoring Active Directory Option V6.1.0 Multiplatform Multilingual	BJOFWML
5698–EMN Tivoli Distributed Monitoring TMP	IBM Tivoli Monitoring Active Directory Option V6.1.0 Multiplatform Multilingual	BJOFWML

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

Shipment will begin on the planned availability date.

Basic license

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
IBM Tivoli Monitoring Client Device Annual SW Maint Rnwl	E00JJLL
IBM Tivoli Monitoring Client Device Lic & SW Maint 12 MO	D51RWLL
IBM Tivoli Monitoring Client Device SW Maint Reinstate 12 MO	D51RYLL
IBM Tivoli Monitoring Managed Processor Annual SW Maint Rnwl	E008QLL
IBM Tivoli Monitoring Managed Processor Lic & SW Maint 12 MO	D50ZGLL
IBM Tivoli Monitoring Managed Processor SW Maint Reinstate 12 MO	D50ZILL
IBM Tivoli Monitoring Mgd Proc Linux on Z Annual SW Maint Rnwl	E008SLL
IBM Tivoli Monitoring Mgd Proc Linux on Z Lic & SW Maint 12 MO	D50ZNLL
IBM Tivoli Monitoring Mgd Proc Linux on Z SW Maint Reinstate 12 MO	D50ZQLL

Part description	Part number
IBM Tivoli Monitoring Active Directory Option	
IBM Tivoli Mon Active Directory Option Mgd Proc Annual SW Maint Rnwl	E00ALLL
IBM Tivoli Mon Active Directory Option Mgd Proc Lic & SW Maint 12 MO	D515ELL
IBM Tivoli Mon Active Directory Option Mgd Proc SW Maint Reinstate 12 MO	D515GLL
IBM Tivoli Monitoring for Databases	
IBM Tivoli Monitoring for Databases Per Managed Proc Lic+SW Maint 12 MO	D51C1LL
IBM Tivoli Monitoring for Databases Per Mngd Proc Annual SW Maint Renewal	E00CMLL
IBM Tivoli Monitoring for Databases Per Mngd Proc SW Maint Reinstate 12 MO	D51C3LL
IBM Tivoli Monitoring for Msg & Collaboration	
IBM Tivol Monitoring Msg & Collaboration Managed PR Annual SW Maint Renewal	E00CRLL
IBM Tivol Monitoring Msg & Collaboration Managed PR Lic+SW Maint 12 MO	D51CELL
IBM Tivol Monitoring Msg & Collaboration Mgd PR SW Maint Reinstate 12 MO	D51CGLL

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 V6.1.0 Multiplatform ML	BJ0FWML
IBM Tivoli Monitoring V6.1 Multiplatform Multilingual	BJ0FVML
IBM Tivoli Monitoring for Msg & Collaboration V6.1	BJ0FYML
IBM Tivoli for Databases V6.1.0 Multiplatform Multilingual	BJ0FXML

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

Withdrawal of Passport Advantage part numbers: IBM will withdraw from marketing the following parts licensed under the IPLA on January 27, 2006:

Program name	Program number	Part description	Part number
IBM Tivoli Monitoring for Databases V5.1.0	5724–B96	IBM TIVOLI MONITORING FOR DATABASES (AP) V5.1 MEDIA PACK	BJ077ML
IBM Tivoli Monitoring for Databases V5.1.0	5724–B96	IBM TIVOLI MONITORING FOR DATABASES (NON–AP) V5.1 MEDIA PACK	BJ06XML
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK FRENC	BJ03YFR
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK GERMAN	BJ03YDE
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK INT ENG	BJ03YIE
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK INT ENG	BJ03YBP
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK ITALIAN	BJ03YIT
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK JAPANESE	BJ03YJA
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK KOREAN	BJ03YKO
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK SIMPLIFIED CHINESE	BJ03YSC
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK SPANISH	BJ03YES
IBM Tivoli Monitoring V5.1.1	5724–C04	IBM TIVOLI MONITORING V5.1 DOC PACK TRADITIONAL CHINESE	BJ03YTC

On/Off Capacity on Demand

Part description	Part number
Tivoli Monitoring	
IBM Tivoli Monitoring Processor Day OOCoD Temp Use Chrg	ASPS6LL
Tivoli Monitoring Active Directory Option	
IBM Tivoli Mon Active Directory Option Processor Day OOCOD Temp Use Charge	ASPY8LL
Tivoli Monitoring for Databases	
IBM Tivoli Monitoring for Databases Per Processor DAY OOCOD Temp Use Chrg	ASPU0LL
Tivoli Monitoring for Messaging & Collaboration	
IBM Tivol Monitoring Msg & Collaboration Proc DAY OOCoD Temp Use Charge	ASPU6LL

Terms and conditions

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

Licensing: IPLA and LI. PoE 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.

License information form numbers

Program name	Program number	Form number
IBM Tivoli Monitoring	5724–C04	L–NSTL–6FRQVL
IBM Tivoli Monitoring Active Directory Option	5724–C71	L–NSTL–6FRQVL
IBM Tivoli Monitoring for Databases	5724–B96	L–NSTL–6FRQVL
IBM Tivoli Monitoring for Msg & Collaboration	5724–B98	L–NSTL–6FRQVL

Limited warranty applies: Yes

Warranty: This program has warranty for a minimum of one year from acquisition from IBM or authorized IBM Business Partner. The warranty provided to the customer, for at least one year from acquisition, is access to databases (read Web sites) for program information and FAQs, including any known fixes to defects, which the customer can download or obtain otherwise and install at leisure.

Money-back guarantee: If for any reason you are dissatisfied with the program and you are the original licensee, return it within 30 days from the invoice date, to the party (either IBM or its reseller) from whom you acquired it, for a refund.

- For programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the Program.
- 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 the customer.

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

Software maintenance applies: Yes

Software Maintenance, previously referred to as Software Subscription and Technical Support, is included in the Passport Advantage Agreement. Installation and technical support is provided by the Software Maintenance offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity, with voice and electronic access into 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 that is available.

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

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

iSeries™ Software Maintenance applies: No

Educational allowance available: Not applicable

On/Off capacity on demand

To be eligible for On/Off Capacity on Demand pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract — Z125-6907, Amendment for iSeries and pSeries Temporary Capacity On Demand — Software — must be signed prior to use.

Prices

Information on charges is available at

http://www.ibmlink.ibm.com/

Select “United States” and then link #2 for Access to Purchase/Upgrade tools page (Non service link applications)

Passport Advantage

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

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

Order now

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

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

Phone:	800-IBM-CALL (426-2255)
Fax:	800-2IBM-FAX (242-6329)
Internet:	ibm_direct@vnet.ibm.com
Mail:	IBM Americas Call Centers Dept: IBM CALL, 11th Floor 105 Moatfield Drive North York, Ontario Canada M3B 3R1

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