



# IBM Tivoli OMNIBus and Network Manager V8.3 includes modification of IBM Tivoli Netcool/OMNIBus V7.3.1 and new release and repricing of IBM Tivoli Network Manager IP Edition V3.9

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## At a glance

IBM® Tivoli® OMNIBus and Network Manager V8.3 includes IBM Tivoli Netcool/OMNIBus™ V7.3.1 and IBM Tivoli Network Manager IP Edition V3.9 delivering significant potential benefits in the following areas:

- Enhanced visualization that improves ease of use and faster time to value
- Improvements in performance and scalability
- Extended integration with Tivoli and third-party software
- Has lower cost of ownership including easier deployment and monitoring improvements
- Includes additional network technology support

For ordering, contact Your IBM representative or an IBM Business Partner. For more information contact the Americas Call Centers at 800-IBM-CALL (426-2255).

Reference: SE001

## Overview

**IBM Tivoli OMNIBus and Network Manager** is designed to provide a cost-effective Service Assurance solution for real-time network discovery, network monitoring, and event management of IT domains and next-generation network environments. The customizable web-based user interface, enabled through the Tivoli Integrated Portal infrastructure, allows you to achieve end-to-end visualization, navigation, security, and reporting (real time and historical) across Tivoli and third-party management tools.

Designed for use in both the smallest to some of the largest deployments, this fast-to-deploy solution offers around-the-clock event and network management with high automation to help you deliver continuous uptime of business, IT and network services.

IBM Tivoli OMNIBus and Network Manager V8.3 includes the new releases of IBM Tivoli Netcool/OMNIBus V7.3.1 and IBM Tivoli Network Manager IP Edition V3.9, which are also separately orderable products.

**IBM Tivoli Netcool/OMNIBusV7.3.1** is designed to scale from the smallest to some of the largest, most complex environments, across business applications, virtualized servers, network devices and protocols, Internet protocols, and security and storage devices. Breadth of coverage, rapid deployment, ease of use, high resilience, and exceptional scalability and performance are just some of the reasons leading organizations worldwide are leveraging Tivoli Netcool/OMNIBus to manage some of the world's largest, most complex environments.

**IBM Tivoli Network Manager IP Edition V3.9** helps an organization visualize and understand the layout of complex networks and the impact of events upon them. The root-cause analysis allows Network Operations Centers' (NOC) operators to work more efficiently by focusing time and attention on root-cause events and identifying symptom events that can be filtered into a separate view.

Tivoli Network Manager's network discovery and modeling capability can provide enterprises and service providers with the accurate real-time visibility of the network infrastructure that they need to effectively use this infrastructure - reducing operational expenditures, future capital expenditures, and maximizing revenues. Tivoli Network Manager provides detailed flexible inventory reporting and the network data required to help reconcile other systems you use to support your business.

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## Key prerequisites

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

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## Planned availability date

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IBM Tivoli OMNIBus and Network Manager V8.3

- February 25, 2011: Electronic general availability
- March 11, 2011: Media and physical general availability

IBM Tivoli Netcool/OMNIBus V7.3.1

- February 25, 2011: Electronic general availability
- March 11, 2011: Media and physical general availability

IBM Tivoli Network Manager IP Edition V3.9

- February 25, 2011: Electronic general availability
- March 11, 2011: Media and physical general availability

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## Description

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### IBM Tivoli OMNIBus and Network Manager V8.3

IBM Tivoli OMNIBus and Network Manager V8.3 includes the new release of IBM Tivoli Netcool/OMNIBus V7.3.1 and IBM Tivoli Network Manager IP Edition V3.9.

The profitability of most organizations depends largely upon their ability to deliver application and network-based services to customers and end users in a cost-effective manner. From fixed and mobile telecommunications services to online trading and web banking, the reliability and performance of application and network-based services are intrinsically tied to an organization's success and bottom line.

IBM Tivoli OMNIBus and Network Manager V8.3 delivers real-time, centralized event monitoring of complex networks and IT domains providing out-of-the-box consolidation of events from a broad range of event sources, and addresses the

issue of correlating large numbers of events using de-duplication, filtering, and state-based correlation techniques. Integration with the capabilities provided by the broader IBM Service Management portfolio further enriches this core technology through:

- Business service management.
- Event enrichment through real-time integration with corporate business data (IBM Tivoli Netcool/Impact).
- Application topology and dependency (IBM Tivoli Application Dependency Discovery Manager).
- System and application monitoring to extend the consolidation of distributed system events (IBM Tivoli Monitoring).
- System z® to capture events from the mainframe environment (IBM Tivoli OMEGAMON® XE).
- Application and transaction performance monitoring by IBM Tivoli Composite Application Manager to provide consolidated views of composite distributed application events.
- Integration with the IBM Tivoli Enterprise Console® (TEC) event sources.
- Network, application, and service topology-based correlation that allows the identification of root-cause and symptom events using downstream, connected, and containment-based relationships for events on both element and links. This is supported by automatic discovery of elements and relationships, and a generalized modeling capability in the Change and Configuration Management Database (CCMDB).
- Causal relationship correlation based upon rules or models leveraging domain expertise.
- Security information and event management, which requires specialized and dedicated techniques (IBM Tivoli Security Operations Manager).
- Trouble ticketing integration with IBM Tivoli Service Request Manager.
- Event archive and reporting with integration to IBM Tivoli Data Warehouse and IBM Tivoli Common Reporting.

This integrated approach provides an extensible event management solution (Tivoli Netcool/OMNIbus), along with modular best-of-breed management capabilities to more effectively balance your immediate, specialized correlation requirements with your strategic, long-term objective of increasing sophistication across the range of event management and operational management processes.

In addition to the breadth and flexibility offered via Tivoli integration, Tivoli Netcool/OMNIbus software's third-party integration support has never been broader. It features:

- Continued expansion of the third-party applications, systems, and network equipment that can be monitored via the Tivoli OMNIbus and Network Manager probes
- Continued expansion of integrations with third-party systems through Tivoli Netcool/OMNIbus gateways that allows other operations management products to benefit from the event correlation and analysis provided in the Tivoli event correlation and analysis suite

### **Use highly scalable fault processing to manage complex, dispersed environments**

Tivoli Netcool/OMNIbus is designed to scale from small environments up to those of some of the largest organizations. The software can be deployed in a distributed, parallel, or hierarchical fashion to support complex operations environments that span diverse geographic boundaries. Since it couples scalability with a flexible architecture, the software can deliver robust event management to support environments of virtually any size.

Tivoli Netcool/OMNIbus provides consolidated management across multiple silos to help organizations improve the end-to-end availability of their application and network-based services. When the software detects faults, the faults are processed

in the ObjectServer, a high-speed, in-memory database that collects events from across the infrastructure in real time.

Tivoli Netcool/OMNIBus then eliminates duplicate events and filters events through an advanced problem escalation engine. The software enables your staff to hone in on the most critical problems and even automate the isolation and resolution of those problems.

### **Automate problem resolution**

Typically, operators diagnose and resolve one alarm at a time leaving several other alarms sitting in the queue for lengthy periods. Tivoli Netcool/OMNIBus helps organizations improve the efficiency of their problem resolution efforts by providing an advanced capability for automating corrective actions to common problems. By allowing operators to run automated resolution scripts against recurring, predictable problems, your organization can more rapidly resolve routine issues and help minimize manual intervention.

**Tivoli Network Manager IP Edition** helps an organization visualize and understand the layout of complex networks and the impact of events upon them. The root-cause analysis allows Network Operations Centers' (NOC) operators to work more efficiently by focusing time and attention on root-cause events and identifying symptom events that can be filtered into a separate view.

Tivoli Network Manager IP Edition V3.9 is uniquely positioned in the market place due to the following differentiators:

- Rapid time to value
- Breadth of new technology protocols and network device coverage
- Performance and scalability
- Flexibility to evolve with your network and meet your changing business needs
- Out-of-the-box integration with Netcool/OMNIBus and other Tivoli products

### **Streamline network operations**

Tivoli Network Manager helps network management staff visualize and understand the layout of complex networks and the impact of network events and failures upon them.

Tivoli Network Manager's topology-based event correlation and root-cause analytics allows NOC operators to work more efficiently by focusing time and attention on root-cause events and identifying symptom events that can be filtered into a separate view. This dramatically reduces the time needed to heal the network and ensures that customer-facing network operations staff has meaningful, contextual information at their fingertips. This helps NOC operations meet their customers highest service expectations.

Tivoli Network Manager's advanced network discovery and visualization capabilities mean that NOC operators are also provided with the ability to view the network infrastructure and associated events that are critical to specific customer services.

### **Manage a broad range of application and network-based services and supporting infrastructure**

Use Tivoli Netcool® Probes to actively collect business and technology events from more than 1,000 sources in real time. These lightweight agents and applications look for events and traps, and monitor network devices across the business.

The probes deliver data to the ObjectServer for collection, filtering, and storage, where your staff can view and manipulate the information and then take meaningful action. Your organization can create customized filters to view data by severity, device, service, geography, or other criteria you define.

In addition to the Netcool Probes, you can deploy the separately licensed Tivoli Monitoring family, that integrates with Tivoli Netcool/OMNIBus, to proactively

measure user experiences and performance across applications and generate alarms based on thresholds you establish.

Tivoli Network Manager provides the user with the capability to automatically discover network devices and their connectivity. This auto-discovery capability generates a topology model that can be:

- Displayed using the web-based topology visualization tool
- Used to target network monitoring systems to identify network events
- Used to correlate disparate network events using the Network Manager IP Root Cause Analysis Engine
- Used to provide an accurate list of network assets to network-inventory systems

Tivoli Network Manager's auto-discovery process constructs a network connectivity model, which is kept up to date by periodic rediscovery (including event driven "partial rediscovery"). This automated network discovery process is highly configurable and extensible. It operates by detecting the existence of a device on the network and querying the device for inventory and connectivity information, which is subsequently processed or "stitched" together to generate a connectivity or topology model. Tivoli Network Manager includes a library of device integration modules to support all major equipment providers using SNMP, telnet, SSH, and via Element Management System integrations.

Examples of devices, systems, and applications include but are not limited to:

- Network infrastructure - Layer 1, 2, and 3 network routers and switches, such as multiprotocol label switching (MPLS), virtual private network (VPN), asynchronous transfer mode (ATM), frame relay, synchronous optical network (SONET), Voice over IP (VoIP), legacy Private Branch Exchange (PBX) based services, and Network Subscriber Units, and other end-user equipment including VoIP telephones, DSL modems, and cable modems.
- Applications - IBM Lotus Notes® and IBM Lotus® Domino®, IBM WebSphere® software, Sybase, SAP, Microsoft® Active Directory, IIS, Exchange and SQL Server, BEA WebLogic, Apache, Oracle, and many more.
- Infrastructure services and protocols - HTTP/HTTPS, Domain Name Service (DNS), Dynamic Host Configuration Protocol (DHCP), Lightweight Directory Access Protocol (LDAP), Simple Mail Transfer Protocol (SMTP), Post Office Protocol 3 (POP3), Internet Message Access Protocol 4 (IMAP4), Radius, and File Transfer Protocol (FTP).
- Wireless infrastructure - Nokia, Nortel, Class 5 voice switches, Private Automatic Branch Exchange (PABX) voice switches, Signaling System 7 (SS7 or C7), Radio Access Network devices, network transport, multiservice components, and optical equipment.
- User transactions - Recording, playback, and performance testing of transactions for user-facing applications such as Java™ applets, and Flash and native Microsoft Windows® client applications.
- Security - VPNs, firewalls, antivirus programs, authorization programs, and intrusion detection systems (IDS).
- Systems - Availability, CPU, log files, memory, disk, application flow, security, and client and server response time. Extend the value of existing enterprise management tools and operations support systems.
- Peripheral equipment and business infrastructure assets including point-of-sale terminals, printers, building management systems, production and other equipment monitored by sensor or telemetry devices.

Tivoli Netcool/OMNIBus can serve as a manager of managers that leverages your existing investments in management systems such as HP Network Node Manager, CA Spectrum, Microsoft System Center for Operations, and many others. By enabling organizations to manage data from multiple tools under a single console, Tivoli Netcool/OMNIBus can help improve the effectiveness of the entire enterprise operations environment.

For service providers, Tivoli Netcool/OMNIBus provides integration with operations support systems (OSS) such as inventory, provisioning, and billing tools. Consequently, the software can help support enhanced Telecom Operations Map (eTOM) initiatives.

Tivoli Netcool/OMNIBus also integrates with help desk and customer relationship management (CRM) applications such as Tivoli Service Request Manager, HP ServiceCenter, and BMC Remedy. It can automatically open trouble tickets and help enable help desk personnel to proactively manage problems by displaying effects of problems on customers and services.

### **End-to-end real-time infrastructure visibility**

Gain real-time management views across your organization by assimilating data from applications and the operations environment into service views by using the Event Management Desktop, formerly known as Tivoli Netcool/Webtop. This web-enabled interface allows monitoring and viewing of high volumes of management data from the ObjectServer. The Event Management Desktop provides your executives, line-of-business managers, operations personnel, and customers with real-time, customizable views of faults, services, and key performance indicators.

Accessible from any Java-enabled web browser, the Event Management Desktop provides operations staff and executives with anytime, anywhere access to service status and actionable information. Highly customizable dashboards offer an array of images, graphical maps, charts, tables, and event lists that can be tailored according to your requirements, showing the big picture of a service or the specific devices that may be causing a problem.

IBM Tivoli Network Manager's Network Management desktop compliments the Event Management Desktop helping network management staff visualize and understand the layout of complex networks and the impact of network events and failures upon them. It includes technology specific network topology maps, network configuration visualization, and ad-hoc SNMP diagnostic tooling. Operators can drill down on specific problems in the event console to locate the alarmed device in the network, perform diagnostics on the problem, and speed mean-time-to-repair.

### **Integrate real-time information with historical reporting**

Understanding the behavior of applications, services, processes, key performance indicators, and other relevant data is critical to effective decision making. Tivoli OMNIBus and Network Manager includes out-of-the-box reporting capabilities to help organizations gain intelligence about developing trends and to identify potential hot spots for proactive intervention before larger problems occur. Tivoli OMNIBus and Network Manager also provides detailed flexible reporting on the network's configuration and connectivity, allowing organizations to use this real-time data to reconcile other systems you use to support your business.

### **About Tivoli software**

The IBM Tivoli software portfolio is used by many of the world's leading enterprises, service providers, and government organizations for its ability to consolidate and manage events across some of the largest, most complex, heterogeneous environments. The Tivoli software portfolio offers broad collection, consolidation, and correlation capabilities to help organizations rapidly identify and resolve problems and improve operational efficiency. By combining real-time service modeling and impact analysis capabilities with scalable fault management, the Tivoli Netcool software portfolio helps organizations to manage more effectively the availability, performance, and security of business applications and services.

Tivoli software from IBM helps organizations more efficiently and effectively manage information technology (IT) resources, tasks, and processes to help meet ever-shifting business requirements, and deliver more flexible and responsive IT service management while helping to reduce costs. The Tivoli portfolio has a wide range of software for security, compliance, storage, performance, availability, configuration,

operations, and IT lifecycle management, and is backed by world-class IBM services, support, and research.

### **Accessibility by people with disabilities**

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

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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### **Product positioning**

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**IBM Tivoli OMNIBus and Network Manager** delivers both event and network management in a single offering. It gives you the opportunity to capitalize on the tight integration between IBM Tivoli Netcool/OMNIBus and IBM Tivoli Network Manager IP Edition. These two products, also orderable separately, provide unrivalled visibility and control of the managed domain and as a joint offering provide the depth and breadth of management capability required regardless of size.

**IBM Tivoli Netcool/OMNIBus** delivers real-time, centralized event management including coverage of the complex networks and IT domains providing advanced correlation and consolidation of events from a broad range of event sources helping improve efficiency and reduce costs.

**IBM Tivoli Network Manager IP Edition** allows an organization to visualize and understand the layout of complex networks and the impact of events upon them. The root-cause analysis identifies and filters symptom events allowing NOC operators to work more efficiently by focusing time and attention on root-cause events.

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### **Program number**

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Program number	VRM	Program name
5724-w11	8.3.0	IBM Tivoli OMNIBus and Network Manager
5724-s44	7.3.1	IBM Tivoli Netcool/OMNIBus
5724-s45	3.9.0	IBM Tivoli Network Manager IP Edition

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### **Education support**

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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/>

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### **Offering Information**

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Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

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## Publications

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The Quick Start guide in English, French, and Chinese (Simplified) is available on separate CD with this program.

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.

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## Technical information

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### **Specified operating environment**

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#### ***Hardware requirements***

##### **IBM Tivoli Netcool/OMNIBus V7.3.1 specified operating environment**

Tivoli Netcool/OMNIBus runs on hardware capable of supporting the software listed in the [Software requirements](#) section. A full installation of Tivoli Netcool/OMNIBus V7.3.1 requires a minimum of 500 MB of available disk space, and a minimum of 500 MB of system memory. The memory resident ObjectServer database benefits from fewer fast processors rather than server architectures with many slower cores.

##### **IBM Tivoli Network Manager IP Edition V3.9 specified operating environment**

Hardware requirements vary according to the size and composition of your network and the features of Tivoli Network Manager you want to use. The following topics describe the hardware requirements that your servers must meet before you can install Tivoli Network Manager.

#### **Requirements for the core components**

Tivoli Network Manager IP Edition V3.9 runs on hardware capable of supporting the software listed in the [Software requirements](#) section. A full installation of Tivoli Network Manager IP Edition V3.9 requires a minimum of 10 GB of available disk space and a minimum of 4 GB of system memory.

#### **Tivoli Integrated Portal (TIP) (User Console) server requirements**

The server on which you install the TIP must meet several requirements. The option in the installation wizard to install TIP also installs other components and is labeled User Console. The server must meet the following requirements:

- 500 MB hard disk space (At least 2 GB additional disk space is recommended.)
- 1 GB system memory (At least 2 GB additional system memory is recommended.)
- CD-ROM drive

#### **Disk space for events and interfaces**

You must calculate and allow for the additional disk space for the number of events and interfaces on your installation. The additional hardware requirements for Tivoli Network Manager are as follows:

- 4 KB of disk space for each expected event, per day of storage required
- 4 KB of disk space for each interface or port on a managed device

For example, if you expect 3,000 events each day and require them to be stored for 30 days, you require: 3,000 \* 30 \* 4 KB = 360 MB.

The total disk space required is therefore: 512 MB + 512 MB cache + 360 MB + (4 KB \* ports).

### **Bandwidth requirements for discovery**

Network discovery operations require a minimum of broadband connection speed. Do not attempt discoveries over dial-up connection speeds. If the connection speed is not sufficient, packets might be lost due to the amount of SNMP traffic that is generated by the default discovery and monitoring operations.

### **Discovery memory requirements**

The discovery engine, the ncp\_disco process, is the Tivoli Network Manager process that uses most memory. Make sure that you meet the memory requirements for your operating system. All Tivoli Network Manager processes, including the ncp\_disco process, are 32-bit processes and, therefore, have access to up to 4 GB of memory.

On the AIX® platform, Tivoli Network Manager processes can automatically access up to 2 GB of memory on an AIX 32-bit kernel and up to 3.25 GB of memory on an AIX 64-bit kernel.

### **Software requirements**

Note: The supported operating systems, browsers, and JRE versions for these products are reviewed and updated at regular intervals. The Tivoli Platform and Database Support Matrix, containing the latest information, is published with monthly updates at

<http://www-01.ibm.com/support/docview.wss?rs=203&uid=swg21067036>

### **IBM Tivoli Netcool/OMNIBus V7.3.1 specified operating environment**

Tivoli Netcool/OMNIBus platform support:

Operating system	Server and Client
AIX V6.1	System i®, System p (includes support for LPAR)
AIX V7.1	System i, System p (includes support for LPAR)
HP-UX 11i v2	PA-RISC and Itanium
HP-UX 11i v3	PA-RISC and Itanium
Red Hat Enterprise Linux® (RHEL) 5.0	x86-32
Red Hat Enterprise Linux (RHEL) 5.0	x86-64
Red Hat Enterprise Linux (RHEL) 5.0	s390x
Red Hat Enterprise Linux (RHEL) 6.0	x86-32
Red Hat Enterprise Linux (RHEL) 6.0	x86-64
Red Hat Enterprise Linux (RHEL) 6.0	s390x
SUSE Linux Enterprise Desktop (SLED) 10.0	x86-32
SUSE Linux Enterprise Desktop (SLED) 10.0	x86-64
Solaris 10 SPARC	(includes support for SPARC zones)
SUSE Linux Enterprise Server (SLES) 10.0	x86-32
SUSE Linux Enterprise Server (SLES) 10.0	x86-64
SUSE Linux Enterprise Server (SLES) 10.0	s390x
SUSE Linux Enterprise Server (SLES) 11.0	x86-32
SUSE Linux Enterprise Server (SLES) 11.0	x86-64
SUSE Linux Enterprise Server (SLES) 11.0	s390x
Windows Server 2008 (R1) Enterprise Edition	x86-32
Windows Server 2008 (R1) Enterprise Edition	x86-64
Windows Server 2008 (R1) Standard Edition	x86-32
Windows Server 2008 (R1) Standard Edition	x86-64
Windows Server 2008 (R2) Enterprise Edition	x86-32

Windows Server 2008 (R2) Enterprise Edition x86-64  
 Windows Server 2008 (R2) Standard Edition x86-32  
 Windows Server 2008 (R2) Standard Edition x86-64

Tivoli Netcool/OMNIBus virtual machine support:

Operating system	Server and Client
VMware ESX Server 3.5	x86-32
VMware ESX Server 3.5	x86-64
VMware ESX Server 4.0	x86-32
VMware ESX Server 4.0	x86-64
KVM 2.6	x86-32
KVM 2.6	x86-64

Tivoli Netcool/OMNIBus Client only platform support:

Operating system	Client
Red Hat Desktop 5.0	x86-32
Red Hat Desktop 5.0	x86-64
Red Hat Desktop 6.0	x86-32
Red Hat Desktop 6.0	x86-64
SUSE 10 - SLED 10	x86-32
SUSE 10 - SLED 10	x86-64
SUSE 11 - SLED 11	x86-32
SUSE 11 - SLED 11	x86-64
Windows Vista Enterprise with FDCC	x86-32
Windows Vista	x86-64
Windows 7 Enterprise with FDCC	x86-32
Windows 7 Enterprise	x86-64

### Java Runtime Environment (JRE) specifications

IBM Tivoli Netcool/OMNIBus V7.3.1 requires JRE V6.0 and is shipped as part of Tivoli Netcool/OMNIBus. All OMNIBus Java components use IBM JRE V1.6 and this JRE is included in the installation program.

### IBM Tivoli Network Manager IP Edition V3.9

Tivoli Network Manager IP Edition V3.9 is supported on various versions of UNIX® and Windows, and requires that the operating system be patched to the latest patch levels.

Tivoli Network Manager IP Edition V3.9 supports the following operating systems.

Tivoli Network Manager IP Edition platform support:

Operating system	Server and Client
Red Hat Enterprise Linux (RHEL) 5.0	x86-32
Red Hat Enterprise Linux (RHEL) 5.0	x86-64
Red Hat Enterprise Linux (RHEL) 5.0	zSeries/System z
SUSE Linux Enterprise Server (SLES) 10.0	x86-32
SUSE Linux Enterprise Server (SLES) 10.0	x86-64
SUSE Linux Enterprise Server (SLES) 10.0	zSeries/system z
SUSE Linux Enterprise Server (SLES) 11.0	x86-32
SUSE Linux Enterprise Server (SLES) 11.0	x86-64
SUSE Linux Enterprise Server (SLES) 11.0	zSeries/System z
Windows Server 2008 (R1) Enterprise Edition	x86-32
Windows Server 2008 (R1) Enterprise Edition	x86-64
Windows Server 2008 (R1) Standard Edition	x86-32
Windows Server 2008 (R1) Standard Edition	x86-64
Windows Server 2008 (R2) Enterprise Edition	x86-64
Windows Server 2008 (R2) Standard Edition	x86-64
Windows Server 2008 (R2) Datacenter Edition	x86-64
Solaris 10	SPARC
Solaris 10	SPARC zones
VMware ESX Server 3.5	x86-32
VMware ESX Server 3.5	x86-64

Tivoli Network Manager IP Edition virtual machine support:

Operating system	Server only
AIX V6.1	System i, System p
AIX V7.1	System i, System p

Tivoli Network Manager IP Edition Client only platform support:

Operating system	Client only
SUSE Linux Enterprise Desktop (SLED) 11.0	x86-64
Windows Vista Enterprise with FDCC	x86-32
Windows Vista	x86-64
Windows 7 Enterprise with FDCC	x86-32
Windows 7 Enterprise	x86-64

### Supported browsers for web applications

To use the web applications, make sure that you use one of the supported web browsers. The following table describes the supported web browsers and the Java Virtual Machine (JVM) versions for each client operating system: \*

#### \* Supported browsers for the installer launchpad

To run the installer launchpad, you must have a supported browser installed.

#### List of supported browsers

The supported browsers for the installer launchpad are described in the following table:

Web browser	Client	JVM
Internet Explorer 7.0	All supported client OS versions	IBM V1.6, Sun 1.6
Internet Explorer 8.0	All supported client OS versions	IBM V1.6, Sun 1.6
Mozilla Firefox 3.6	All supported client OS versions	IBM V1.6 (not on Solaris), Sun 1.6

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

## Planning information

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### Installability

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

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

### Packaging

IBM Tivoli OMNibus and Network Manager is distributed with:

- DVDs

- Publications (refer to the [Publications](#) section)

IBM Tivoli Netcool/OMNIbus is distributed with:

- DVDs and CDs
- Publications (refer to the [Publications](#) section)

IBM Tivoli Network Manager IP Edition is distributed with:

- DVDs
- Publications (refer to the [Publications](#) section)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

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### **Security, auditability, and control**

IBM Tivoli OMNIbus and Network Manager uses the security and auditability features of the operating system software.

IBM Tivoli Netcool/OMNIbus uses the security and auditability features of the operating system software.

IBM Tivoli Network Manager IP Edition 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.

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## **Software Services**

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services Sales Specialist, visit

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

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## **Licensing metric definitions and pricing examples**

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### **Licensing metric definitions**

#### **Install**

Install is a unit of measure by which the program can be licensed. An install is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

#### **Millions of Service Units (MSU) per hour**

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 System z software runs. Processor MSU

values are determined by the hardware vendor, IBM, or Software Compatible Vendors (SCVs).

### **Resource Value Unit (RVU)**

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

Instead of the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

### **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 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), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

### **Product and licensing websites**

A complete list of IBM Tivoli products is available at

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

IBM Tivoli product licensing documents are available at

<http://www.ibm.com/software/tivoli/products/licensing.html>

## Passport Advantage

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Through the Passport Advantage Agreement, you 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 IBM Tivoli product configuration under Passport Advantage, the IBM 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 your environment to determine the number of charge units 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 IBM 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 IBM Tivoli product part number. The sum of these Passport Advantage points determines the Passport Advantage point value of the applicable IBM 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, refer to the following

<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.

## Pricing information

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### ***IBM Tivoli OMNIBus and Network Manager pricing information***

**IBM Tivoli OMNIBus and Network Manager** is priced using the following chargeable components and metrics:

- **Base per install** - Each running instance of the program's ObjectServer database is considered an installed copy of a base install.
- **Resource Value Unit (RVU) per tier** - The unit of measure for this program is per tier described below:
  - Where resources counted are devices:
    - Network Device Tier
    - Event Device Tier
    - Entry Tier
  - Where resources counted are basic devices:
    - Event Basic Device Tier
    - Network Basic Device Tier
  - Where resources counted are element management systems (EMS):
    - Event EMS Tier
  - Where resources counted are Q3 EMS:
    - Event Q3 EMS Tier

*Network Device Tier* - A device in the context of the Network Device Tier is an element that has the capability to initiate a notification or respond to a request for notification. Examples include, but are not limited to, routers and switches.

*Event Device Tier and Event Tier* - A device in the context of the Event Device Tier and Event Tier is an element that has the capability to initiate a notification or respond to a request for notification. Examples include, but are not limited to, servers, routers, and switches.

The Entry Tier provides event and network management for a device. Licensee may purchase RVUs to entitle management of a maximum of 1,000 devices at the Entry Tier.

*Event Basic Device Tier and Network Basic Device Tier* - A Basic Device in the context of the Event Basic Device Tier and the Network Basic Device Tier is a resource with limited computing power, equipment monitored by a special purpose sensor or telemetry device, or Network Subscriber Unit (NSU). Examples include, but are not limited to, point-of-sale terminals, printers, VoIP telephones, DSL modems, cable modems, and assets such as production equipment, facilities-related items, and transportation-related items.

*Event EMS Tier* - An EMS in the context of the Event EMS Tier is an instance of an EMS provided by a non-IBM software vendor or network equipment provider that provides unified fault configuration, accounting performance, or security management of one or more physical devices. Other resources counted at the EMS Tier include mainframe systems (which are measured per 400 MSUs), IBM Tivoli Monitoring when use of Tivoli Monitoring is restricted to the forwarding of situation events relating only to performance data (broader usage of Tivoli Monitoring requires device pricing), and Microsoft System Center Operations Manager.

*Event Q3 EMS Tier* - A Q3 EMS in the context of the Event Q3 EMS Tier is an instance of an EMS which is interfaced via the Q3 protocol.

#### IBM Tivoli OMNibus and Network Manager RVU conversion list

To determine the number of RVUs for each tier applicable to licensee's use of the programs, multiply the number of resources for that tier by the applicable RVU factors determined from the following list and sum the results:

- From 1 to 100 resources, RVUs per resource = 1 RVU for a maximum of 100 RVUs at this level (cumulative RVUs of 100)
- From 101 to 250 resources, RVUs per resource = .9 RVU for a maximum of 135 RVUs at this level (cumulative RVUs of 235)
- From 251 to 500 resources, RVUs per resource = .8 RVU for a maximum of 200 RVUs at this level (cumulative RVUs of 435)

- From 501 to 750 resources, RVUs per resource = .6 RVU for a maximum of 150 RVUs at this level (cumulative RVUs of 585)
- From 751 to 1,250 resources, RVUs per resource = .5 RVU for a maximum of 250 RVUs at this level (cumulative RVUs of 835)
- From 1,251 to 2,000 resources, RVUs per resource = .4 RVU for a maximum of 300 RVUs at this level (cumulative RVUs of 1135)
- For more than 2,000 resources, RVUs per resource = .3 RVUs

For the purpose of resource based licensing, licensee must obtain entitlements within the applicable tier for each resource managed by the program, regardless of any intermediate consolidation application. For example, where the consolidation application is used for the consolidation of multiple device or basic device resources, entitlement is required for each managed device or basic device that has been consolidated.

The following components of Tivoli Netcool/OMNIBus are not priced and unlimited instances of these are included in each Tivoli Netcool OMNIBus and Network Manager entitlement:

- Tivoli Netcool/OMNIBus Object Server to Object Server Gateways
- Tivoli Netcool/OMNIBus Probe Consolidation Server
- Tivoli Netcool/OMNIBus Firewall Bridge
- Tivoli Netcool/OMNIBus Administrator GUI
- Tivoli Netcool/OMNIBus Process Agent
- Integration to IBM Tivoli Service Request Manager
- Integration to the IBM Tivoli Data Warehouse
- Netcool utility functions

### ***IBM Tivoli Netcool/OMNIBus pricing information***

**IBM Tivoli Netcool/OMNIBus** is priced using the following chargeable components and metrics:

- **Base per install** - Each running instance of the program's ObjectServer database is considered an installed copy of a base install.
- **Resource Value Unit (RVU) per tier** - The unit of measure for this program is per tier described below:
  - Where resources counted are devices:
    - Event Device Tier
  - Where resources counted are Basic Devices:
    - Event Basic Device Tier
  - Where resources counted are EMS:
    - Event EMS Tier
  - Where resources counted are Q3 EMS:
    - Event Q3 EMS Tier

*Event Device Tier* - A device in the context of the Event Device Tier is an element that has the capability to initiate a notification or respond to a request for notification. Examples include, but are not limited to, servers, routers, and switches.

*Event Basic Device Tier* - A Basic Device in the context of the Event Basic Device Tier is a resource with limited computing power, equipment monitored by a special purpose sensor or telemetry device, or NSU. Examples include, but are not limited to, point-of-sale terminals, printers, VoIP telephones, DSL modems, cable modems, and assets such as production equipment, facilities-related items, and transportation-related items.

*Event EMS Tier* - An EMS in the context of the Event EMS Tier is an instance of an EMS provided by a non-IBM software vendor or network equipment provider that provides unified fault configuration, accounting performance, or security

management of one or more physical devices. Other resources counted at the EMS Tier include mainframe systems (which are measured per 400 MSUs), IBM Tivoli Monitoring when use of Tivoli Monitoring is restricted to the forwarding of situation events relating only to performance data (broader usage of Tivoli Monitoring requires device pricing), and Microsoft SCOM.

*Event Q3 EMS Tier* - A Q3 EMS in the context of the Event Q3 EMS Tier is an instance of an EMS which is interfaced via the Q3 protocol.

IBM Tivoli Netcool/OMNIBus RVU conversion list

To determine the number of RVUs for each tier applicable to licensee's use of the programs, multiply the number of resources for that tier by the applicable RVU factors determined from the following list and sum the results:

- From 1 to 100 resources, RVUs per resource = 1 RVU for a maximum of 100 RVUs at this level (cumulative RVUs of 100)
- From 101 to 250 resources, RVUs per resource = .9 RVU for a maximum of 135 RVUs at this level (cumulative RVUs of 235)
- From 251 to 500 resources, RVUs per resource = .8 RVU for a maximum of 200 RVUs at this level (cumulative RVUs of 435)
- From 501 to 750 resources, RVUs per resource = .6 RVU for a maximum of 150 RVUs at this level (cumulative RVUs of 585)
- From 751 to 1,250 resources, RVUs per resource = .5 RVU for a maximum of 250 RVUs at this level (cumulative RVUs of 835)
- From 1,251 to 2000 resources, RVUs per resource = .4 RVU for a maximum of 300 RVUs at this level (cumulative RVUs of 1,135)
- For more than 2,000 resources, RVUs per resource = .3 RVUs

For the purpose of resource based licensing, licensee must obtain entitlements within the applicable tier for each resource managed by the program, regardless of any intermediate consolidation application. For example, if licensee consolidates multiple instances of an EMS, then entitlement is required for each EMS instance that has been consolidated. Where the consolidation application is used for the consolidation of multiple device or basic device resources (for example, trap consolidation), entitlement is required for each managed device or basic device that has been consolidated.

The following components of Tivoli Netcool/OMNIBus are not priced and unlimited instances of these are included in each Tivoli Netcool OMNIBus and Network Manager entitlement.

- Tivoli Netcool/OMNIBus Object Server to Object Server Gateways
- Tivoli Netcool/OMNIBus Probe Consolidation Server
- Tivoli Netcool/OMNIBus Firewall Bridge
- Tivoli Netcool/OMNIBus Administrator GUI
- Tivoli Netcool/OMNIBus Process Agent
- Integration to IBM Tivoli Service Request Manager
- Integration to the IBM Tivoli Data Warehouse
- Netcool utility functions

### ***IBM Tivoli Network Manager IP Edition pricing information***

**IBM Tivoli Network Manager IP Edition** is priced using the following chargeable components and metrics:

- **Base per install** - Each running instance of the program's network connectivity and inventory model is considered an installed copy of a base install.
- **Resource Value Unit (RVU) per tier** - The unit of measure for this program is per tier described below:
  - Where resources counted are devices:
    - Network Device Tier

- Where resources counted are basic devices:
  - Network Basic Device Tier

*Network Device Tier* - A device in the context of the Network Device Tier is an element that has the capability to initiate a notification or respond to a request for notification. Examples include, but are not limited to, routers and switches.

*Network Basic Device Tier* - A Basic Device in the context of the Network Basic Device Tier is a resource with limited computing power, equipment monitored by a special purpose sensor or telemetry device, or NSU. Examples include, but are not limited to, point-of-sale terminals, printers, VoIP telephones, DSL modems, cable modems, and assets such as production equipment, facilities-related items, and transportation-related items.

#### IBM Tivoli Network Manager IP Edition RVU conversion list

To determine the number of RVUs for each tier applicable to licensee's use of the programs, multiply the number of resources for that tier by the applicable RVU factors determined from the following list and sum the results:

- From 1 to 100 resources, RVUs per resource = 1 RVU for a maximum of 100 RVUs at this level (cumulative RVUs of 100)
- From 101 to 250 resources, RVUs per resource = .9 RVU for a maximum of 135 RVUs at this level (cumulative RVUs of 235)
- From 251 to 500 resources, RVUs per resource = .8 RVU for a maximum of 200 RVUs at this level (cumulative RVUs of 435)
- From 501 to 750 resources, RVUs per resource = .6 RVU for a maximum of 150 RVUs at this level (cumulative RVUs of 585)
- From 751 to 1,250 resources, RVUs per resource = .5 RVU for a maximum of 250 RVUs at this level (cumulative RVUs of 835)
- From 1,251 to 2,000 resources, RVUs per resource = .4 RVU for a maximum of 300 RVUs at this level (cumulative RVUs of 1,135)
- For more than 2,000 resources, RVUs per resource = .3 RVUs

For the purpose of resource based licensing, licensee must obtain entitlements within the applicable Tier for each resource managed by the program, regardless of any intermediate consolidation application. For example, where the consolidation application is used for the consolidation of multiple device or basic device resources (for example, trap consolidation), entitlement is required for each managed device or basic device that has been consolidated.

#### **Pricing example**

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##### ***IBM Tivoli OMNIbus and Network Manager pricing example***

Customer installs 1 application instance of the Tivoli OMNIbus and Network Manager base, would like network and event device management capabilities for 1,250 devices. This is a new installation of Tivoli OMNIbus and Network Manager, the customer has not previously purchased entry tier entitlements.

The customer requires the following:

- Quantity of 1 Tivoli OMNIbus and Network Manager base install (1 for each instance installed)
- Quantity of 710 of Tivoli OMNIbus and Network Manager Entry\* Tier (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135), added to 250 multiplied by a factor of 0.8 (200), added to 250 multiplied by a factor of 0.6 (150), added to 250 multiplied by a factor of 0.5 (125))
  - \* Because the customer has previously not purchased entry tier entitlements, the customer may purchase entitlements for a maximum of 1,000 devices using the Tivoli OMNIbus and Network Manager Entry Tier.

- Quantity of 235 Tivoli OMNIbus and Network Manager Event Device Tier (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135))
- Quantity of 235 Tivoli OMNIbus and Network Manager Device Tier (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135))

**IBM Tivoli Netcool/OMNIbus pricing example**

Customer installs 2 instances of the Tivoli Netcool/OMNIbus ObjectServer, is managing 300 point-of-sale terminals, and 3 EMS.

The customer requires the following:

- Quantity of 2 Tivoli Netcool/OMNIbus base install (1 for each instance installed)
- Quantity of 3 of Tivoli Netcool/OMNIbus Event EMS Tier (3 instances multiplied by factor of 1.0)
- Quantity of 275 IBM Tivoli Netcool/OMNIbus Basic Device Tier (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135), added to 50 multiplied by a factor of 0.8 (40))

**IBM Tivoli Network Manager IP Edition pricing example**

The customer is running two instances of Tivoli Network Manager IP Edition V3.9 (but sharing one network connectivity and inventory model instance) and would like network management capabilities for 500 network routers and switches.

The customer requires the following:

- Quantity of 1 Tivoli Network Manager IP Edition base install (1 for each network connectivity and inventory model database)
- Quantity of 435 of IBM Tivoli Network Manager Network Device Tier (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135), added to 250 multiplied by a factor of 0.8 (200))

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**Ordering information**

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

Product group: Tivoli  
 Product Identifier Description (PID)  
 IBM Tivoli OMNIbus and Network Manager (5724-w11)  
 Product category: Network Management and Performance

Product group: Tivoli  
 Product Identifier Description (PID)  
 IBM Tivoli Netcool/OMNIbus (5724-s44)  
 Product category: Network Management and Performance

Product group: Tivoli  
 Product Identifier Description (PID)  
 IBM Tivoli Network Manager IP Edition (5724-s45)  
 Product category: Network Management and Performance

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

Program number	Program name	Value unit exhibit
5724-w11	IBM Tivoli OMNIbus and Network Manager	VUE002
5724-s44	IBM Tivoli Netcool/OMNIbus	VUE002
5724-s45	IBM Tivoli Network Manager IP Edition	VUE002

**Value Unit exhibit VUE002**

Level	Resources		RVU factor	Maximum RVUs at this level	Cumulative RVUs
	Minimum	Maximum			
1 minimum	1	100	1.0	100	100
2	101	250	0.9	135	235
3	251	500	0.8	200	435
4	501	750	0.6	150	585
5	751	1,250	0.5	250	835
6	1,251	2,000	0.4	300	1,135
7 maximum	2,000	and above	0.3		

**Passport Advantage trade up**

Below is a list of precursor products for which you must have already acquired a license, in order to be eligible to acquire equivalent licenses using the trade-up part numbers.

Precursor product	Trade-up product	Trade-up part number
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Entry Tier	D0B8KLL
IBM Tivoli Netview RVU	IBM Tivoli OMNibus and Network Manager Entry Tier	D0B8LLL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Entry Tier zLinux	D0B8RLL
IBM Tivoli Netview RVU	IBM Tivoli OMNibus and Network Manager Entry Tier zLinux	D0B8SLL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Event Device Tier	D0B8YLL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Event Device Tier zLinux	D0B93LL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Event Basic Device Tier	D0B99LL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Event Basic Device Tier zLinux	D0B9HLL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Event EMS Tier	D0B9PLL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Event EMS Tier zLinux	D0B9SLL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNibus and Network Manager Network Basic Device Tier	D0BA7LL
IBM Tivoli Netview RVU	IBM Tivoli OMNibus and Network Manager	D0BA8LL

	Network Basic Device Tier	
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNIBus and Network Manager Network Basic Device Tier zLinux	D0BABL
IBM Tivoli Netview RVU	IBM Tivoli OMNIBus and Network Manager Network Basic Device Tier zLinux	D0BACL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNIBus and Network Manager Network Device Tier	D0BAFL
IBM Tivoli Netview RVU	IBM Tivoli OMNIBus and Network Manager Network Device Tier	D0BAGL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNIBus and Network Manager Network Device Tier zLinux	D0BAQL
IBM Tivoli Netview RVU	IBM Tivoli OMNIBus and Network Manager Network Device Tier zLinux	D0BARL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNIBus and Network Manager Event Q3 Tier	D0BNBL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNIBus and Network Manager Event Q3 Tier zLinux	D0BNEL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNIBus and Network Manager Base per Install	D0BTLL
IBM Tivoli Netview RVU	IBM Tivoli OMNIBus and Network Manager Base per Install	D0BTUL
IBM Tivoli Enterprise Console RVU	IBM Tivoli OMNIBus and Network Manager Base per Install zLinux	D0BTXL
IBM Tivoli Netview RVU	IBM Tivoli OMNIBus and Network Manager Base per Install zLinux	D0BTYL
IBM Tivoli Enterprise Console RVU	IBM Tivoli Netcool/OMNIBus Event Device Tier	D0BAVL
IBM Tivoli Enterprise Console RVU zLinux	IBM Tivoli Netcool/OMNIBus Event Device Tier	D0BB1L
IBM Tivoli Enterprise Console RVU	IBM Tivoli Netcool/OMNIBus Event EMS Tier	D0BB7L
IBM Tivoli Enterprise Console RVU zLinux	IBM Tivoli Netcool/OMNIBus Event EMS Tier	D0BB1L

IBM Tivoli Enterprise Console RVU	IBM Tivoli Netcool/OMNIBus Event Q3 Tier	D0BN4LL
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IBM Tivoli Enterprise Console RVU zLinux	IBM Tivoli Netcool/OMNIBus Event Q3 Tier	D0BN7LL
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Consult your IBM representative if you have any questions.

### **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.

#### **IBM Tivoli OMNIBus and Network Manager V8.3 (5724-W11)**

Media packs description	Part number
IBM Tivoli OMNIBus and Network Manager V8.3 Base Multiplatform Multilingual Media Pack	BJ0XQML
IBM Tivoli OMNIBus and Network Manager V8.3 Event Q3 Multiplatform English Media Pack	BJ0XREN

#### **IBM Tivoli Netcool/OMNIBus V7.3.1 (5724-S44)**

Media packs description	Part number
IBM Tivoli Netcool/OMNIBus V7.3.1 Base MULTIPLATFORM MULTILILINGUAL MEDIA PACK	BP01AML
IBM Tivoli Netcool/OMNIBus V7.3.1 Event Q3 MULTIPLATFORM ENGLISH MEDIA PACK	BP01BEN

#### **IBM Tivoli Network Manager IP Edition V3.9 (5724-S45)**

Media packs description	Part number
IBM Tivoli Network Manager IP Edition V3.9 MULTIPLATFORM MULTILILINGUAL MEDIA PACK	BP01CML

### **Current licensees**

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Current licensees, with support in effect, will receive instructions on how to order this update.

### ***New licensees***

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

### **Basic license**

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#### **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 Software Maintenance. Software 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 for twelve full months of maintenance.

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

The quantity to be specified for the Passport Advantage part numbers in the following table is per required number of Resource Value Units. To order for Passport Advantage, specify the desired part number and quantity.

### **IBM Tivoli OMNibus and Network Manager V8.3 (5724-W11)**

#### **Base per install**

Description	Part number
<b>Base Per Install</b>	
License + SW Subscription & Support 12 Months	D0BTRLL
SW Subscription & Support Renewal	E087VLL
SW Subscription & Support Reinstatement 12 Months	D0BTSLL
Trade Up from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0BTLL
Trade Up From IBM Tivoli Netview	
License + SW Subscription & Support 12 Months	D0BTULL
<b>Base per Install for zLinux</b>	
License + SW Subscription & Support 12 Months	D0BTVLL
SW Subscription & Support Renewal	E087WLL
SW Subscription & Support Reinstatement 12 Months	D0BTWLL
Trade Up from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0BTXLL
Trade Up from IBM Tivoli Netview	
License + SW Subscription & Support 12 Months	D0BTYLL

#### **Entry Tier per Resource Value Unit**

Description	Part number
<b>ENTRY TIER PER RESOURCE VALUE UNIT</b>	
License + SW Subscription & Support 12 Months	D0B8ILL
SW Subscription & Support Renewal	E07V0LL
SW Subscription & Support Reinstatement 12 Months	D0B8JLL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B8KLL
TRADE UP from IBM Tivoli Netview	
License + SW Subscription & Support 12 Months	D0B8LLL
<b>ENTRY TIER PER RESOURCE VALUE UNIT for zLINUX</b>	
License + SW Subscription & Support 12 Months	D0B8PLL
SW Subscription & Support Renewal	E07V2LL
SW Subscription & Support Reinstatement 12 Months	D0B8QLL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B8RLL
TRADE UP from IBM Tivoli Netview	
License + SW Subscription & Support 12 Months	D0B8SLL

#### **Event Basic Device Tier per Resource Value Unit**

Description	Part number
<b>EVENT BASIC DEVICE TIER PER RESOURCE VALUE UNIT</b>	
License + SW Subscription & Support 12 Months	D0B97LL
SW Subscription & Support Renewal	E07V6LL
SW Subscription & Support Reinstatement 12 Months	D0B98LL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B99LL

EVENT BASIC DEVICE TIER PER RESOURCE VALUE UNIT FOR zLinux	
License + SW Subscription & Support 12 Months	D0B9FLL
SW Subscription & Support Renewal	E07V8LL
SW Subscription & Support Reinstatement 12 Months	D0B9GLL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B9HLL

**Event Device Tier per Resource Value Unit**

Description	Part number
EVENT DEVICE TIER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0B8WLL
SW Subscription & Support Renewal	E07V3LL
SW Subscription & Support Reinstatement 12 Months	D0B8XLL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B8YLL

EVENT DEVICE TIER PER RESOURCE VALUE UNIT for zLinux	
License + SW Subscription & Support 12 Months	D0B91LL
SW Subscription & Support Renewal	E07V4LL
SW Subscription & Support Reinstatement 12 Months	D0B92LL
TRADE UP from Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B93LL

**Event EMS Tier per Resource Value Unit**

Description	Part number
EVENT EMS TIER PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0B9LLL
SW Subscription & Support Renewal	E07VBLL
SW Subscription & Support Reinstatement 12 Months	D0B9NLL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B9PLL

EVENT EMS TIER PER RESOURCE VALUE UNIT for zLinux	
License + SW Subscription & Support 12 Months	D0B9QLL
SW Subscription & Support Renewal	E07VCLL
SW Subscription & Support Reinstatement 12 Months	D0B9RLL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0B9SLL

**Event Q3 Tier per Resource Value Unit**

Description	Part number
EVENT Q3 TIER PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0BN9LL
SW Subscription & Support Renewal	E085HLL
SW Subscription & Support Reinstatement 12 Months	D0BNALL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0BNBLL

EVENT Q3 TIER PER RESOURCE VALUE UNIT for zLinux	
License + SW Subscription & Support 12 Months	D0BNCLL
SW Subscription & Support Renewal	E085ILL
SW Subscription & Support Reinstatement 12 Months	D0BNDLL
TRADE UP from IBM Tivoli Enterprise Console	
License + SW Subscription & Support 12 Months	D0BNELL

**Network Basic Device Tier per Resource Value Unit**

Description	Part number
NETWORK BASIC DEVICE TIER PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0BA5LL
SW Subscription & Support Renewal	E07VJLL
SW Subscription & Support Reinstatement 12 Months	D0BA6LL

TRADE UP from IBM Tivoli Enterprise Console License + SW Subscription & Support 12 Months	D0BA7LL
TRADE UP from IBM Tivoli Netview License + SW Subscription & Support 12 Months	D0BA8LL

NETWORK BASIC DEVICE TIER PER RESOURCE VALUE UNIT for zLINUX License + SW Subscription & Support 12 Months	D0BA9LL
SW Subscription & Support Renewal	E07VKLL
SW Subscription & Support Reinstatement 12 Months	D0BAALL
TRADE UP from IBM Tivoli Enterprise Console License + SW Subscription & Support 12 Months	D0BABLL
TRADE UP from IBM Tivoli Netview License + SW Subscription & Support 12 Months	D0BACL

### Network Device Tier per Resource Value Unit

Description	Part number
NETWORK DEVICE TIER PER RESOURCE VALUE UNIT License + SW Subscription & Support 12 Months	D0BADLL
SW Subscription & Support Renewal	E07VLLL
SW Subscription & Support Reinstatement 12 Months	D0BAELL
TRADE UP from IBM Tivoli Enterprise Console License + SW Subscription & Support 12 Months	D0BAFLL
TRADE UP from IBM Tivoli Netview License + SW Subscription & Support 12 Months	D0BAGLL
NETWORK DEVICE TIER PER RESOURCE VALUE UNIT for zLINUX License + SW Subscription & Support 12 Months	D0BANLL
SW Subscription & Support Renewal	E07VQLL
SW Subscription & Support Reinstatement 12 Months	D0BAPLL
TRADE UP from IBM Tivoli Enterprise Console License + SW Subscription & Support 12 Months	D0BAQLL
TRADE UP from IBM Tivoli Netview License + SW Subscription & Support 12 Months	D0BARLL

### IBM Tivoli Netcool/OMNibus V7.3.1 (5724-S44)

#### Base per install

Description	Part number
BASE PER INSTALL License + SW Subscription & Support 12 Months	D0BU9LL
SW Subscription & Support Renewal	E0882LL
SW Subscription & Support Reinstatement 12 Months	D0BUALL
BASE PER INSTALL FOR LINUX ON SYSTEM Z License + SW Subscription & Support 12 Months	D0BUBLL
SW Subscription & Support Renewal	E0883LL
SW Subscription & Support Reinstatement 12 Months	D0BUCLL

#### Event Basic Device Tier per Resource Value Unit

Description	Part number
EVENT BASIC DEVICE TIER PER RESOURCE VALUE UNIT License + SW Subscription & Support 12 Months	D0B7BLL
SW Subscription & Support Renewal	E07UJLL
SW Subscription & Support Reinstatement 12 Months	D0B7CLL
EVENT BASIC DEVICE TIER PER RESOURCE VALUE UNIT FOR LINUX ON SYSTEM Z License + SW Subscription & Support 12 Months	D0B7LLL
SW Subscription & Support Renewal	E07UPLL
SW Subscription & Support Reinstatement 12 Months	D0B7MLL

#### Event Device Tier per Resource Value Unit

Description	Part number
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EVENT DEVICE TIER PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0B8GLL
SW Subscription & Support Renewal	E07UZLL
SW Subscription & Support Reinstatement 12 Months	D0B8HLL
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BAVLL

EVENT DEVICE TIER PER RESOURCE VALUE UNIT FOR LINUX ON SYSTEM Z	
License + SW Subscription & Support 12 Months	D0B8MLL
SW Subscription & Support Renewal	E07V1LL
SW Subscription & Support Reinstatement 12 Months	D0B8NLL
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BB1LL

### Event EMS Tier per Resource Value Unit

Description	Part number
EVENT EMS TIER PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0B9KLL
SW Subscription & Support Renewal	E07VALL
SW Subscription & Support Reinstatement 12 Months	D0B9MLL
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BB7LL

EVENT EMS TIER PER RESOURCE VALUE UNIT FOR LINUX ON SYSTEM Z	
License + SW Subscription & Support 12 Months	D0B9TLL
SW Subscription & Support Renewal	E07VDLL
SW Subscription & Support Reinstatement 12 Months	D0B9ULL
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BBILL

### Event Q3 Tier per Resource Value Unit

Description	Part number
EVENT Q3 TIER PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0BN2LL
SW Subscription & Support Renewal	E085FLL
SW Subscription & Support Reinstatement 12 Months	D0BN3LL
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BN4LL

EVENT Q3 TIER PER RESOURCE VALUE UNIT FOR ZLINUX	
License + SW Subscription & Support 12 Months	D0BN5LL
SW Subscription & Support Renewal	E085GLL
SW Subscription & Support Reinstatement 12 Months	D0BN6LL
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BN7LL

### IBM Tivoli Network Manager IP Edition V3.9 (5724-S45)

#### Base per install

Description	Part number
BASE PER INSTALL	
License + SW Subscription & Support 12 Months	D0I81LL
SW Subscription & Support Renewal	E0BKCLL
SW Subscription & Support Reinstatement 12 Months	D0I82LL
BASE PER INSTALL FOR LINUX ON SYSTEM Z	
License + SW Subscription & Support 12 Months	D0I87LL
SW Subscription & Support Renewal	E0BKGLL
SW Subscription & Support Reinstatement 12 Months	D0I88LL

#### Network Basic Device per Resource Value Unit

Part

Description	number
NETWORK BASIC DEVICE PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0I8JLL
SW Subscription & Support Renewal	E0BKMLL
SW Subscription & Support Reinstatement 12 Months	D0I8KLL
NETWORK BASIC DEVICE PER RESOURCE VALUE UNIT FOR LINUX ON SYSTEM Z	
License + SW Subscription & Support 12 Months	D0I8LLL
SW Subscription & Support Renewal	E0BKMLL
SW Subscription & Support Reinstatement 12 Months	D0I8MLL

### Network Device per Resource Value Unit

Description	Part number
NETWORK DEVICE PER RESOURCE VALUE UNIT	
License + SW Subscription & Support 12 Months	D0I8SLL
SW Subscription & Support Renewal	E0BKSLL
SW Subscription & Support Reinstatement 12 Months	D0I8TLL
NETWORK DEVICE PER RESOURCE VALUE UNIT FOR LINUX ON SYSTEM Z	
License + SW Subscription & Support 12 Months	D0I8PLL
SW Subscription & Support Renewal	E0BKPLL
SW Subscription & Support Reinstatement 12 Months	D0I8QLL

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Part number	Description
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BJ0XREN	IBM Tivoli OMNIBus and Network Manager V8.3 EVENT Q3 MULTIPLATFORM ENGLISH MEDIA PACK

### IBM Tivoli Netcool/OMNIBus V7.3.1 (5724-S44)

Part number	Description
BP01AML	IBM Tivoli Netcool/OMNIBus V7.3.1 BASE MULTIPLATFORM MULTILINGUAL MEDIA PACK
BP01BEN	IBM Tivoli Netcool/OMNIBus V7.3.1 EVENT Q3 MULTIPLATFORM ENGLISH MEDIA PACK

### IBM Tivoli Network Manager IP Edition V3.9 (5724-S45)

Part number	Description
BP01CML	IBM Tivoli Network Manager IP Edition V3.9 MULTIPLATFORM MULTILINGUAL MEDIA PACK

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### ***IBM International Passport Advantage Agreement***

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