



IBM Netcool Network Management V9.2.2, IBM Tivoli Network Manager IP Edition V4.1.1, and IBM Tivoli Netcool Configuration Manager V6.4.1 updates

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At a glance

IBM® Netcool® Network Management V9.2.2 new feature include:

- Extending the network management scope to LTE (4G) wireless access networks
- Element Manager Systems integrations with the major LTE vendors for network discovery, visualization, event correlation and root-cause analysis
- Network Manager custom filters
- Network Manager 64-bit support
- Network Manager DB2 10.1, including optional High Availability Disaster Recovery support
- Oracle 11g available as a database option for Network Manager, which includes Real Application Cluster support
- Configuration Manager usability enhancements

IBM Netcool Network Management V9.2.2 is designed to offer benefits in the following areas:

- Consolidated visualization of operations tools to provide a single view
- Scalable flexible network discovery provides end-to-end visibility of heterogeneous networks
- Reconciles the as-built view versus the as-planned views
- Closed loop problem resolution across event, network management, and configuration and compliance
- Monitoring and root-cause analysis helps reduce the mean time to resolution of network faults and increase reliability
- Jump start network compliance management leveraging sample compliance policies including industry-specific policy packs, for example, Payment Card Industry (PCI)
- Accelerate on-boarding of customers with automated provisioning of network services to support cloud-based solutions
- Enable any nontechnical user to build intuitive customizable business-oriented views, via self-service dashboards and event content to mobile devices

Overview

IBM Netcool Network Management V9.2.2 extends the scope to 4G Long Term Evolution® (LTE) wireless access networks via Element Manager Systems integration with the major LTE vendors for network discovery, visualization, event

correlation, and root-cause analysis. Also included are IBM Tivoli® Network Manager custom filters, Tivoli Network Manager 64-bit support, and Network Manager IBM DB2® 10.1 support for Tivoli Network Manager, including optional high availability disaster recovery support. Oracle 11g is also available as a database option for Tivoli Network Manager, which includes Real Application Cluster support. IBM Tivoli Netcool Configuration Manager V6.4.1 usability enhancements are also included.

IBM Netcool Network Management V9.2.2 is designed to help deliver cost-effective event, network, configuration, and compliance management enabling service assurance of dynamic IT and network infrastructure in a single offering. It gives you the opportunity to capitalize on the tight integration between IBM Tivoli Netcool/OMNIBus, IBM Tivoli Network Manager IP Edition, and IBM Tivoli Netcool Configuration Manager. These three products, also orderable separately, provide unrivalled visibility, control, and automation of the managed domain and, as a joint offering, provide the depth and breadth of management capability, which can help with the smallest to some of the largest deployments. They achieve rapid deployment of end-to-end visualization, navigation, security, configuration management, automation, and reporting (real time and historical) across IBM and third-party management tools helping you meet your objective of delivering continuous uptime of business, IT, and network services.

IBM Tivoli Netcool/OMNIBus V7.4.0 is designed to scale from the smallest to large complex environments, across business applications, virtualized servers, network devices and protocols, Internet protocols, and security and storage devices. Strong event correlation and analysis functionality, coupled with rapid deployment, ease of use, high resilience, and exceptional scalability and performance, are just some of the reasons to leverage Tivoli Netcool/OMNIBus to manage some of the largest, most complex environments. You now get enhancements in key areas of mobility, cloud management, self-service dashboards, and standards-based integration capabilities.

IBM Tivoli Network Manager IP Edition V4.1.1 helps an organization visualize and understand the layout of complex networks and the impact of events upon them. Its network discovery, visualization, event correlation, and root-cause analysis help 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 V4.1.1 includes stability, performance, and scalability improvements, and improved integration with Netcool Network Management, Tivoli Netcool/OMNIBus, and Tivoli Netcool Configuration Manager. Tivoli Network Manager IP Edition V4.1.1 extends the existing network management capability to include LTE. This extends Tivoli Network Manager V4.1 support, which focused on non-IP layer 1 optical transport backhaul and 2G and 3G wireless networks.

IBM Tivoli Netcool Configuration Manager V6.4.1 helps users' efforts to reduce the number of manual configuration errors on network devices through the use of reusable templates, which help drive consistency and accuracy for bulk configuration changes. It is designed to manage data more effectively and efficiently, scaling from smaller networks to large scale enterprises and telecommunication provider networks. Its tight coupling between configuration and compliance enables continuous monitoring of defined compliance policies. Leveraging the sample compliance policy library helps users to jump start the value, which can be recognized from compliance management. Streamlining the integration of new device types rapidly in the field with the device driver development environment allows new devices to be brought under management quickly.

Key prerequisites

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

Planned availability date

IBM Netcool Network Management V9.2.2, IBM Tivoli Netcool/OMNIBus V7.4.0, IBM Tivoli Netcool Configuration Manager V6.4.1, and IBM Tivoli Network Manager IP Edition V4.1.1 will be available on the following dates:

- June 06, 2014: Electronic general availability
- June 13, 2014: Media and physical general availability

Description

New features in **IBM Netcool Network Management V9.2.2** include extending the scope to 4G Long Term Evolution (LTE) wireless access networks through Element Manager Systems integrations with the major LTE vendors for network discovery, visualization, event correlation, and root-cause analysis. Also included are Network Manager custom filters, Tivoli Network Manager 64-bit support and IBM DB2 10.1 support for Tivoli Network Manager, including optional high availability disaster recovery support. Oracle 11g is also available as a database option for Tivoli Network Manager, which includes Real Application Cluster support. IBM Tivoli Netcool Configuration Manager V6.4.1 usability enhancements are also included.

IBM Netcool Network Management V9.2.2 builds upon the great number of intended benefits offered by IBM Tivoli Netcool/OMNIBus, IBM Tivoli Network Manager IP Edition, and IBM Tivoli Netcool Configuration Manager. As a package, it offers the ability to purchase and deploy combined event, network, configuration, and compliance management. The bundle delivers flexibility for growth while allowing access to full functionality and integration from the start.

IBM Netcool Network Management V9.2.2 helps you:

- Find and see the network: Discover your network infrastructure and get end-to-end visualization of your entire network infrastructure (both physical and virtual).
- Fix the network: Root-cause analysis to reduce the noise (error messages being sent to the system operators) and find the actionable events to proactively fix before the network goes down.
- Automate the network: Automate network configuration changes and the provisioning of network services based on the network errors you find so they do not happen again.
- Secure the network: Continuous evaluation of network configuration compliance against industry standards and best practices.

IBM Tivoli Netcool/OMNIBus V7.4.0 helps organizations maximize service availability providing market-leading event consolidation, correlation, and analysis capability across the broadest range of today's dynamic infrastructures. Consolidated task-based dashboards, readily tailored for operations and management requirements contribute to improved staff productivity and lower operational costs. Tivoli Netcool/OMNIBus gateways are in the core application with enablement metrics completing the simplification of the product structure into a single set. Existing customer gateway entitlements will be migrated.

Version 7.4.0 brings enhanced functionality to both users and administrators, helping deliver significant benefits in the following areas:

- Mobility
 - Enables the mobile and remote operations staff through enhanced event management content to mobile devices
- Cloud
 - Improves service assurance across the virtual and cloud environment with extended hypervisor and server event correlation
- Integration

- Expands on standards coverage by enabling smoother and powerful operational support systems integration through adoption of the W3C Open Services for Lifecycle Collaboration (OSLC) initiative providing an open integration capability that may be exploited by IBM, partners, customers, and third-party operational support systems providers.
- Has bidirectional integration from ObjectServer to probe enabling probe actions to be dynamically driven from ObjectServer automation.
- Improved information to management and operations with enhanced Tivoli Common Reporting (IBM Cognos® version).
- Consumability
 - Helps technicians to work more efficiently by focusing time and attention on root-cause events and identifying symptom events
 - Helps reduce the time needed to resolve problems
 - Aids efforts that customer-facing network operations staff have meaningful, contextual information immediately at hand
 - Has close integration with IBM Tivoli Network Manager that provides operators with the ability to view the network infrastructure and associated events that are critical to specific services helping meet your customers' service expectations

IBM Tivoli Network Manager IP Edition V4.1.1

- Provides a network discovery and visualization framework to support many network operations and administration use cases
- Helps network management staff visualize and understand the layout of complex networks and the impact of network events and failures upon them
- Helps Network Operations Centers' (NOC) technicians to work more efficiently by focusing time and attention on root-cause events and identifying symptom events
- Helps reduce the time needed to repair a network problem
- Aids efforts that customer-facing network operations staff have meaningful, contextual information immediately at hand
- Helps NOC operations meet their customers' service expectations
- Provides NOC operators with the ability to view the network infrastructure and associated events that are critical to specific customer services
- Enables detailed flexible inventory reporting
- Provides the network data to reconcile other systems an organization may use to support their business

Tivoli Network Manager IP Edition V4.1.1 updates:

- Extends network discovery, visualization, and event correlation, and root-cause analysis to include LTE networks.
- LTE vendor EMS integration:
 - Nokia Solutions and Networks NetAct
 - Alcatel-Lucent SAM 5620
 - Huawei U2000

Note that LTE network management deployments will typically be a combination of LTE EMS integration, possibly optical transport EMS integrations and standard Tivoli Network Manager IP discovery techniques.
- Custom interface filters
 - A network administrator can now focus on interfaces of interest from the SNMP network collected into their database as defined by custom interface filters.
 - Custom interface filters reduce unnecessary network traffic, device load and discovery process time.
- 64-bit product architecture on 64-bit Red Hat Enterprise Linux™

- The new 64-bit architecture applies primarily to the addressable space of both the Tivoli Network Manager GUI and Tivoli Network Manager discovery process.
- Facilitates better management of large scale networks and overall efficiency improvements.
- DB2 10.1 is the default database for Tivoli Network Manager V4.1.1.
- DB2 10.1 for Tivoli Network Manager V4.1.1 includes optional HADR support.
- Oracle 11g support is also available for NCIM network topology management and miscellaneous database functions.
- Oracle 11g Real Application Cluster support included in Tivoli Network Manager V4.1.1.
- Overall stability, performance, and scalability improvements.
- Updated browser support.
- Can use IBM DB2 Workgroup or Enterprise Edition under a no-charge limited use license for storing data collected and generated by Tivoli Network Manager.

For more detailed information about the Tivoli Network Manager IP Edition release, refer to Software Announcement [LP11-0065](#), dated February 22, 2011.

IBM Tivoli Netcool Configuration Manager V6.4.1 is the next generation of intelligent networking solutions for network-driven organizations so they can control, manage, and scale their networks. Tivoli Netcool Configuration Manager V6.4.1 provides a best-in-class network automation solution for multivendor devices, for example, routers, switches, hubs, and firewalls. This powerful solution includes network configuration and change management, policy-based compliance management, and software upgrades.

IBM Tivoli Netcool Configuration Manager V6.4.1 helps you to enforce granular access control and security, automate configuration changes, enable network compliance, and accurately provision devices, virtually irrespective of vendor, type, model, or operating system. Leveraging IBM DB2 technology, Tivoli Netcool Configuration Manager is designed to manage data more effectively and efficiently. Greater availability is delivered through enhancements such as online, automated database reorganization. In addition, the increased scalability and the ability to leverage the latest in server technology helps deliver increased performance of backup and recovery processes.

Highlights:

- Can offer improved time to value
 - Device driver development environment enables services, business partners, and customers to integrate new devices for configuration and compliance management, in the field that support a text based Command Line Interface (CLI).
 - Extending standard sample policies for compliance management, including industry-specific sample policy packs, for example, Payment Card Industry (PCI).
 - Can help your effort to implement enhanced import and export compliance policies.
- Supporting management of virtualized network devices
 - Extending device coverage for various virtualization, cloud, and data center devices
- Enhanced integration to support activation of network services
 - Automated provisioning of network infrastructure is a key component of cloud solutions. Tivoli Netcool Configuration Manager now provides a single gateway for the provisioning of the network layer in the context of cloud solutions. Originating as Netcool Service Extension, which was a separate piece of software that could be installed separately from Tivoli Netcool Configuration Manager, it is added to Tivoli Netcool Configuration Manager as Network Service Manager and enhanced to support additional network provisioning requirements.

Unique items:

- Single offering delivering fault, network, configuration, and compliance management
- Can help users achieve rapid time to value
- Smooth scaling in performance and cost based on managed domain size
- Offers wide breadth of coverage of event sources, technology protocols, and network device coverage
- Performance and scalability
- Richness of standard integrations
- Automation of network configuration tasks, from small networks to large complex networks, which can help drive efforts aimed at achieving operational cost savings and improving network availability with the reduction of manual configuration errors
- SmartModel automation, which enables standardized representation of native device configuration
- A unified platform that provides a single point of access for all changes and policies
- Configuration capabilities with nondisruptive rollback and reusable templates
- Extensive visibility into security, with access control based on roles, devices, and commands
- Always on compliance to help efforts to enforce regulatory, security, and operational policies
- Support for approval and scheduling of unit of work workflows
- Upgrade operating systems for the devices being managed

Accessibility by people with disabilities

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

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

Reference information

For more information about IBM Netcool Network Management V9.2, refer to Software Announcement [LP12-0599](#), dated November 27, 2012.

For more information about IBM Tivoli Network Manager IP Edition V4.1, refer to Software Announcement [LP13-0415](#), dated August 20, 2013.

Program number

Program number	VRM	Program name
5724-w11	9.2.2	IBM Netcool Network Management
5724-s44	7.4.0	IBM Tivoli Netcool/OMNIBUS
5724-s45	4.1.1	IBM Tivoli Network Manager IP Edition
5724-s45	3.9.0	IBM Tivoli Network Manager IP Edition
5725-F56	6.4.1	IBM Tivoli Netcool Configuration Manager

Education support

Comprehensive education for IBM Tivoli products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available,

including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

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

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

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

Publications

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.

Technical information

Specified operating environment

Hardware requirements

On or after June 06, 2014, go to the following website and select Detailed system requirements and then select the information needed under the product version.

http://www-947.ibm.com/support/entry/portal/Overview/Software/Tivoli/Tivoli_Monitoring

Software requirements

On or after June 06, 2014, go to the following website and select Product and select your product's System requirements.

http://www-03.ibm.com/software/products/en/category/network-managementTivoli_Monitoring

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

Limitations

Components of IBM Netcool Network Management V9.2.2 are supported with Linux on System z®, but currently IBM Tivoli Netcool Configuration Manager V6.4.1 does not work with Linux on System z.

Tivoli Network Manager IP Edition V4.1.1 can only be deployed on Red Hat Enterprise Linux. Use Tivoli Network Manager V3.9 if additional operating environments are required.

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement, at no additional charge. Read about the Electronic Support portfolio of tools

<http://ibm.com/electronicssupport>

Access the IBM Support Portal

<http://ibm.com/support>

Access the online Service Request tool

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

Planning information

Packaging

IBM Netcool Network Management 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)

IBM Tivoli Netcool Configuration Manager 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.

Security, auditability, and control

IBM Netcool Network Management, IBM Tivoli Netcool/OMNIbus, IBM Tivoli Network Manager IP Edition, and IBM Tivoli Netcool Configuration Manager 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.

Licensing metric definitions

Application Instance

Application Instance is a unit of measure by which the program can be licensed. An entitlement is required for each instance of an application connected to or managed by the program. An application in a test, development, staging, or production environment is each considered to be a separate instance of the application and each must have an entitlement. As well, multiple application instances in a single environment are each considered to be separate instances of the application and each must have an entitlement.

Connection

Connection is a unit of measure by which the program can be licensed. A Connection is a link or association of a database, application, server, or any other type of device to the program. Licensee must obtain entitlements for the total number of Connections which have been or are made to the program.

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.

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 Cloud and Smarter Infrastructure products is available at

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

IBM Cloud and Smarter Infrastructure product licensing documents are available at

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

IBM software policies, including but not limited to those policies concerning backup, sub-capacity pricing, and migration, are available at

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

Passport Advantage

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

IBM Netcool Network Management pricing information

IBM Netcool Network Management is priced using the following chargeable components and metrics.

The following program is licensed on a **per Install** basis:

- IBM Netcool Network Management Base

When determining the number of entitlements required for licensee's installation or use of the program the installation or use of only the following program components are taken into consideration. In other words, licensee may install and use program components other than those listed below, under the license terms, but only the listed components are used to determine the number of entitlements required for the program.

- IBM Tivoli Netcool/OMNIBus ObjectServer database

The following programs are licensed on a **per Connection** basis:

- IBM Netcool Network Management Event Forwarding
- IBM Netcool Network Management Data Exchange

Each instance of one way event forwarding from the Tivoli Netcool/OMNIBus ObjectServer database is considered an Event Forwarding Connection. Examples include but are not limited to use of the program's gateways or application programming interfaces (API) for the purposes of processing by another application or for archive to a database other than event forwarding to the licensee's Tivoli applications or forwarding for display of current active events in user interfaces.

Each instance of two way data exchange between the Tivoli Netcool/OMNIBus ObjectServer and other systems or applications is considered a Data Exchange Connection. Examples include but are not limited to use of Netcool/OMNIBus gateways or API for integration with Trouble Ticketing and other Operational Support Systems other than data exchange with the licensee's Tivoli applications.

The following programs are licensed on an **RVU** basis:

- IBM Netcool Network Management Network Device
- IBM Netcool Network Management Network Basic Device
- IBM Netcool Network Management Event Device
- IBM Netcool Network Management Event Basic Device
- IBM Netcool Network Management Event EMS
- IBM Netcool Network Management Configuration Standard Device
- IBM Netcool Network Management Configuration Standard Basic Device
- IBM Netcool Network Management SmartModel Device
- IBM Netcool Network Management SmartModel Basic Device
- IBM Netcool Network Management SmartModel Complex Device
- IBM Netcool Network Management Entry Device
- IBM Netcool Network Management Combined Management Device

The Resources for the purpose of RVU calculation are either Network Device, Network Basic Device, Event Device, Event Basic Device, Event EMS, Configuration Standard Device, Configuration Standard Basic Device, SmartModel Device, SmartModel Basic Device, SmartModel Complex Device, Entry Device or Combined Management Device. Licensee must obtain entitlements for each resource managed regardless of any intermediate consolidation application.

A Network Device is an element for which licensee requires network management 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.

An Event Device 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.

An Entry Device is an element for which licensee requires event network and configuration management that has the capability to initiate a notification or respond to a request for notification, or has an interface that is open for configuration management (for example, Command Line Interface (CLI) using the native capabilities of the device. Examples include, but are not limited to hubs, gateways, routers, and switches. Licensee may obtain RVUs to entitle management of a maximum of 1,000 Entry Devices.

A Combination Management Device is an element for which licensee requires event network and configuration management that has the capability to initiate a notification or respond to a request for notification or has an interface that is open for configuration management (for example, CLI) using the native capabilities of the device. Examples include, but are not limited to hubs, gateways, routers, and switches.

An Event Basic Device is a resource with limited computing power, equipment monitored by a special purpose sensor or telemetry device, or Network Subscriber Unit (NSU), for which Licensee requires event management. 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.

A Network Basic Device is a resource with limited computing power, equipment monitored by a special purpose sensor or telemetry device, or NSU, for which licensee requires network management. 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 is an instance of an Element Management System 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, for which licensee requires Event Management. Other resources counted as EMS 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. A Million Service Units (MSUs) 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). For MSU capacity by vendor and machine, refer to

<http://www.ibm.com/systems/z/resources/swprice/reference/exhibits/hardware.html>

A Configuration Standard Device has an interface that is open for configuration management (for example, CLI) using the native capabilities of the device. Examples include, but are not limited to hubs, gateways routers and switches.

A Configuration Standard Basic Device 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.

A SmartModel Device is a resource for which licensee needs advanced modeling capabilities. Examples include, but are not limited to, consumer Customer Premise Equipment (CPE) type devices, small enterprise routers, switches used as gateways, on-premise equipment typically, aggregation and core type devices found in the network.

A SmartModel Basic Device is a resource with limited computing power, equipment monitored by a special purpose sensor or telemetry device, or NSU for which licensee needs advanced modeling capabilities. 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.

A SmartModel Complex Device is an element that meets one of the following criteria:

- A high-capacity device capable of providing higher layer (OSI layer 4 plus) services.
- A very large routing or switching device.
- A device capable of supporting multiple virtual images.

The following components of Tivoli Netcool/OMNIBus are not priced and unlimited instances of these are included in each IBM Netcool Network Management 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 with IBM Tivoli Service Request Manager®
Integration with the IBM Tivoli Data Warehouse
Netcool utility functions

RVU conversion table:

- From 1 to 100 Resources, 1.0 RVU per Resource
- From 101 to 250 Resources, 100 RVUs plus 0.9 RVUs per Resource above 100
- From 251 to 500 Resources, 235 RVUs plus 0.8 RVUs per Resource above 250
- From 501 to 750 Resources, 435 RVUs plus 0.6 RVUs per Resource above 500

- From 751 to 1,250 Resources, 585 RVUs plus 0.5 RVUs per Resource above 750
- From 1,251 to 2,000 Resources, 835 RVUs plus 0.4 RVUs per Resource above 1,250
- For more than 2,000 Resources, 1,135 RVUs plus 0.30 RVUs per Resource above 2,000

IBM Tivoli Netcool/OMNIBus pricing information

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

1. The following programs are licensed on a per Install basis:

- IBM Tivoli Netcool/OMNIBus Base
- Netcool/OMNIBus Base

Each running instance of the program's ObjectServer database is considered an installed copy of a Base Install.

2. The following programs are licensed on a per Connection basis:

- IBM Tivoli Netcool/OMNIBus Event Forwarding
- Netcool/OMNIBus Event Forwarding
- IBM Tivoli Netcool/OMNIBus Data Exchange
- Netcool/OMNIBus Data Exchange

Each instance of one way event forwarding from the program's ObjectServer database is considered an Event Forwarding Connection. Examples include but are not limited to use of the program's gateways or API for the purposes of processing by another application or for archive to a database other than event forwarding to the licensee's Tivoli applications or forwarding for display of current active events in user interfaces.

Each instance of two way data exchange between the program's ObjectServer and other systems or applications is considered a Data Exchange Connection. Examples include but are not limited to use of the program's gateways or API for integration with Trouble Ticketing and other Operational Support Systems other than data exchange with the licensee's Tivoli applications.

3. The following programs are licensed based on Resource Value Units (RVUs):

- IBM Tivoli Netcool/OMNIBus Event Device
- IBM Tivoli Netcool/OMNIBus Event Basic Device
- IBM Tivoli Netcool/OMNIBus Event EMS
- Netcool/OMNIBus Event Device
- Netcool/OMNIBus Event Basic Device
- Netcool/OMNIBus Event EMS
- Netcool/OMNIBus Event Q3 EMS

The Resources for the purpose of RVU calculation are either Event Device, Event Basic Device, or Event EMS. Licensee must obtain entitlements for each resource managed 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.

In addition to the RVU entitlements for the Resources managed by the program, if the program is configured to provide High Availability of the management system, Licensee must obtain additional RVU entitlements for all Resources managed by the program. Configuration considered to be providing high availability includes but is not limited to one or more of the following: failover

and failback connections to the ObjectServer databases configured for Hot Standby, event store and forward, peer to peer heartbeating, and event resynchronization with restarting element management systems.

An Event Device 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, Integrated Facility for Linux (IFL) processors, and managed instances within a third-party cloud.

An 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.

An Event EMS is an instance of an Element Management System provided by a non-IBM software vendor or network equipment provider that provides unified fault configuration, accounting performance, and/or security management including but not limited to the capability of initiating appropriate action to one or more physical devices and fault management. Other resources counted at the EMS Tier include mainframe systems (which are measured per 400 MSUs), IBM Tivoli Monitoring when use of IBM Tivoli Monitoring is restricted to the forwarding of situation events relating only to performance data (broader usage of IBM Tivoli Monitoring requires device pricing), and Microsoft System Center Operations Manager. A Million Service Units (MSUs) 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). For MSU capacity by vendor and machine, refer to

<http://www.ibm.com/systems/z/resources/swprice/reference/exhibits/hardware.html>

4. RVU conversion table

From 1 to 100 Resources, 1.0 RVU per Resource

From 101 to 250 Resources, 100 RVUs plus 0.9 RVUs per Resource above 100

From 251 to 500 Resources, 235 RVUs plus 0.8 RVUs per Resource above 250

From 501 to 750 Resources, 435 RVUs plus 0.6 RVUs per Resource above 500

From 751 to 1,250 Resources, 585 RVUs plus 0.5 RVUs per Resource above 750

From 1,251 to 2,000 Resources, 835 RVUs plus 0.4 RVUs per Resource above 1,250

For more than 2,000 Resources, 1,135 RVUs plus 0.30 RVUs per Resource above 2,000

IBM Tivoli Netcool Configuration Manager pricing information

IBM Tivoli Netcool Configuration Manager is priced using the following chargeable components and metrics.

The following program is licensed on a per Install basis:

- IBM Tivoli Netcool Configuration Manager Base

The following programs are licensed on an RVU basis:

- IBM Tivoli Netcool Configuration Manager Configuration Standard Device
- IBM Tivoli Netcool Configuration Manager Configuration Standard Basic Device
- IBM Tivoli Netcool Configuration Manager SmartModel Device
- IBM Tivoli Netcool Configuration Manager SmartModel Basic Device
- IBM Tivoli Netcool Configuration Manager SmartModel Complex Device

The Resources for the purpose of RVU calculation are either Configuration Standard Device, Configuration Standard Basic Device, SmartModel Device, SmartModel Basic Device, or SmartModel Complex Device.

A Configuration Standard Device has an interface that is open for configuration management (for example, CLI) using the native capabilities of the device. Examples include, but are not limited to hubs, gateways, routers, and switches.

A Configuration Standard Basic Device 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.

A SmartModel Device is a resource for which Licensee needs advanced modeling capabilities. Examples include, but are not limited to, consumer Customer Premise Equipment (CPE) type devices, small enterprise routers, switches used as gateways, on-premise equipment typically, aggregation and core type devices found in the network.

A SmartModel Basic Device is a resource with limited computing power, equipment monitored by a special purpose sensor or telemetry device, or NSU for which licensee needs advanced modeling capabilities. 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

A SmartModel Complex Device is an element that meets one of the following criteria:

- A high-capacity device capable of providing higher layer (OSI layer 4 plus) services.
- A very large routing or switching device.
- A device capable of supporting multiple virtual images.

RVU conversion table:

- From 1 to 100 Resources, 1.0 RVU per Resource
- From 101 to 250 Resources, 100 RVUs plus 0.9 RVUs per Resource above 100
- From 251 to 500 Resources, 235 RVUs plus 0.8 RVUs per Resource above 250
- From 501 to 750 Resources, 435 RVUs plus 0.6 RVUs per Resource above 500
- From 751 to 1,250 Resources, 585 RVUs plus 0.5 RVUs per Resource above 750
- From 1,251 to 2,000 Resources, 835 RVUs plus 0.4 RVUs per Resource above 1,250
- For more than 2,000 Resources, 1,135 RVUs plus 0.30 RVUs per Resource above 2,000

Pricing example

IBM Netcool Network Management pricing example

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

The customer requires the following:

- Quantity of 1 Netcool Network Management Base (1 for each active instance of the IBM Tivoli Netcool/OMNIbus ObjectServer database)
- Quantity of 710 of Netcool Network Management Entry* Device (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 Netcool Network Management Entry Device.

- Quantity of 235 Netcool Network Management Event Device (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135))
- Quantity of 235 Netcool Network Management Network Device (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135))
- Quantity of 235 Netcool Network Management Configuration Standard Device (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135))

The same customer later requires SmartModel Device management for 250 of the devices previously entitled under Configuration Standard Device.

The customer requires the following:

- Quantity of 235 trade up from Configuration Manager Configuration Standard Device (100 multiplied by factor of 1.0 (100), added to 150 multiplied by a factor of 0.9 (135))

IBM Tivoli Netcool Configuration Manager pricing example

ABC Telcom deploys 1 install of IBM Tivoli Netcool Configuration Manager on 1 server and is managing configurations on 2,500 devices. ABC needs SmartModel capabilities for 1,250 devices, of which 10 are very high capacity (SmartModel Complex), 1,240 are high-capacity, core type devices (SmartModel Device). The remainder of the devices (1,250) require Configuration Standard device support.

The customer requires the following:

	Pricing metric	Quantity in customer environment	Installs required	Net Resource Value units required
IBM Tivoli Netcool Configuration Manager Base	Install	1	1	
IBM Tivoli Netcool Configuration Manager Configuration Standard Device	RVU	1,250		835*
IBM Tivoli Netcool Configuration Manager SmartModel Device	RVU	1,240		830**
IBM Tivoli Netcool Configuration Manager SmartModel Complex Device	RVU	10		10***

* Quantity of 1250 requires 835 RVUs per RVU Factor table.

** Quantity of 1240 requires 830 RVUs per RVU Factor table.

*** Quantity of 10 requires 10 RVUs per RVU Factor table.

Ordering information

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

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

<http://www.ibm.com/partnerworld/wps/bplocator/>

IBM product, service or specialty: Software

Product group: Tivoli Business Automation
 Product Identifier Description (PID)
 IBM Netcool Network Management (5724-w11)
 Product category: Network Management and Performance

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

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

Product group: Tivoli Business Automation
 Product Identifier Description (PID)
 IBM Tivoli Netcool Configuration Manager (5725-f56)
 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 Netcool Network Management V9.2.2	VUE002
5724-s44	IBM Tivoli Netcool/OMNIBus v7.4.0	VUE002
5724-s45	IBM Tivoli Network Manager IP Edition v4.1.1	VUE002
5724-s45	IBM Tivoli Network Manager IP Edition v3.9.0	VUE002
5725-f56	IBM Tivoli Netcool Configuration Manager v6.4.1	VUE002

Value Unit exhibit VUE002

Level	Resources Minimum	Resources Maximum	RVU factor	Maximum RVUs at this level	Cumulative RVUs
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 Netcool Network Management Entry Tier	D0B8KLL

IBM Tivoli Netview RVU	IBM Netcool Network Management Entry Tier	D0B8LLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Entry Tier zLinux	D0B8RLL
IBM Tivoli Netview RVU	IBM Netcool Network Management Entry Tier zLinux	D0B8SLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Event Device Tier	D0B8YLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Event Device Tier zLinux	D0B93LL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Event Basic Device Tier	D0B99LL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Event Basic Device Tier zLinux	D0B9HLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Event EMS Tier	D0B9PLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Event EMS Tier zLinux	D0B9SLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Network Basic Device Tier	D0BA7LL
IBM Tivoli Netview RVU	IBM Netcool Network Management Network Basic Device Tier	D0BA8LL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Network Basic Device Tier zLinux	D0BABLL
IBM Tivoli Netview RVU	IBM Netcool Network Management Network Basic Device Tier zLinux	D0BACLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Network Device Tier	D0BAFLL
IBM Tivoli Netview RVU	IBM Netcool Network Management Network Device Tier	D0BAGLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Network Device Tier zLinux	D0BAQLL
IBM Tivoli Netview RVU	IBM Netcool Network Management Network Device Tier zLinux	D0BARLL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Base per Install	D0BTLL
IBM Tivoli Netview RVU	IBM Netcool Network Management Base per Install	D0BTULL
IBM Tivoli Enterprise Console RVU	IBM Netcool Network Management Base per Install zLinux	D0BTXLL
IBM Tivoli Netview RVU	IBM Netcool Network Management Base per Install zLinux	D0BTYLL
IBM Tivoli Enterprise Console	IBM Tivoli Netcool/OMNibus Base per install	D0BV6LL
IBM Tivoli Enterprise Console	IBM Tivoli Netcool/OMNibus Base per install for Linux on System Z	D0BV5LL
IBM Tivoli Enterprise Console RVU	IBM Tivoli Netcool/OMNibus Event Device Tier	D0BAVLL
IBM Tivoli Enterprise Console RVU zLinux	IBM Tivoli Netcool/OMNibus Event Device Tier	D0BBILL

IBM Tivoli Enterprise Console RVU	IBM Tivoli Netcool/OMNIBus Event EMS Tier	D0BB7LL
IBM Tivoli Enterprise Console RVU zLinux	IBM Tivoli Netcool/OMNIBus Event EMS Tier	D0BB1LL
IBM Tivoli Netcool/OMNIBus Base	IBM Netcool Network Management Base	D0LXGLL
IBM Tivoli Network Manager IP Ed Base	IBM Netcool Network Management Base	D0LXGLL
IBM Tivoli Netcool Configuration Manager Base	IBM Netcool Network Management Base	D0LXGLL
IBM Tivoli Netcool/OMNIBus Base for zLinux	IBM Netcool Network Management Base for z Linux	D0LXHLL
IBM Tivoli Network Manager IP Ed Base for zLinux	IBM Netcool Network Management Base for z Linux	D0LXHLL
IBM Tivoli Netcool Configuration Manager Basefor zLinux	IBM Netcool Network Management Base for z Linux	D0LXHLL
IBM Tivoli Netcool/OMNIBus Basic Device	IBM Netcool Network Management Event Basic Device	D0LWZLL
IBM Tivoli Netcool/OMNIBus Basic Device For zLinux	IBM Netcool Network Management Event Basic Device for z Linux	D0LX0LL
IBM Tivoli Netcool/OMNIBus Event Device	IBM Netcool Network Management Event Device	D0LX1LL
IBM Tivoli Netcool/OMNIBus Event Device For zLinux	IBM Netcool Network Management Event Device for z Linux	D0LX3LL
IBM Tivoli Netcool/OMNIBus EMS Tier	IBM Netcool Network Management Event EMS Tier	D0LX4LL
IBM Tivoli Netcool/OMNIBus EMS Tier For zLinux	IBM Netcool Network Management Event EMS Tier for z Linux	D0LX2LL
IBM Tivoli Network Manager IP Ed Basic Device	IBM Netcool Network Management Network Basic Device	D0LX6LL
IBM Tivoli Network Manager IP Ed Basic Device For zLinux	IBM Netcool Network Management Network Basic Device for z Linux	D0LX7LL
IBM Tivoli Network Manager IP Ed Device	IBM Netcool Network Management Network Device	D0LX5LL
IBM Tivoli Network Manager IP Ed Device For zLinux	IBM Netcool Network Management Network Device for z Linux	D0LXMLL
IBM Tivoli Netcool	IBM Tivoli Netcool Configuration	D0LURLL

Configuration Manager Configuration Standard Basic Device	Manager Smart Model Basic Device per Resource Value Unit	
IBM Tivoli Netcool Configuration Manager Configuration Standard Device	IBM Tivoli Netcool Configuration Manager Smart Model Device per Resource Value Unit	D0LUULL
IBM Tivoli Netcool Configuration Manager Configuration Standard Device	IBM Tivoli Netcool Configuration Manager Smart Model Complex Device per Resource Value Unit	D0LUXLL
IBM Tivoli Netcool Configuration Manager	IBM Netcool Network Management Configuration Standard Basic Device per Resource Value Unit	D0LY1LL
IBM Tivoli Netcool Configuration Manager	IBM Netcool Network Management Configuration Smart Model Basic Device per Resource Value Unit	D0LWILL
IBM Tivoli Netcool Configuration Manager Basic Device	IBM Netcool Network Management Configuration Smart Model Basic Device per Resource Value Unit	D0LWJLL
IBM Tivoli Netcool Configuration Manager Standard Device	IBM Netcool Network Management Configuration Smart Model Device per Resource Value Unit	D0LWMLL
IBM Tivoli Netcool Configuration Manager Standard Device	IBM Netcool Network Management Configuration Smart Model Complex Device per Resource Value Unit	D0LWRLL
IBM Tivoli Netcool Configuration Manager Standard Tier	IBM Netcool Network Management Configuration Standard Device	D0LXYLL
IBM Tivoli Netcool Configuration Manager SmartModel Tier 1	IBM Netcool Network Management Smart Model Device	D0LWNLL
IBM Tivoli Netcool Configuration Manager SmartModel Tier 2	IBM Netcool Network Management Smart Model Device	D0LWNLL
IBM Tivoli Netcool Configuration Manager SmartModel Tier 3	IBM Netcool Network Management Smart Model Device	D0LWSLL

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 Netcool Network Management V9.2.2 (5724-W11)

Media packs description	Part number
IBM Netcool Network Management V9.2.2 Base Multiplatform Multilingual Media Pack	BJ15KML

IBM Tivoli Netcool/OMNIBUS V7.4 (5724-S44)

Media packs description	Part number
IBM Tivoli Netcool/OMNIBUS V7.4 Base MULTIPLATFORM MULTILILINGUAL MEDIA PACK	BP01FML

IBM Tivoli Netcool/OMNIBus Event Forwarding V7.4
MULTIPLATFORM ENGLISH MEDIA PACK BPO1HEN

IBM Tivoli Netcool/OMNIBus Data Exchange V7.4
MULTIPLATFORM ENGLISH MEDIA PACK BPO1IEN

IBM Tivoli Network Manager IP Edition V4.1.1 (5724-S45)

Media packs
description Part number

IBM Tivoli Network Manager IP Edition V4.1.1
MULTIPLATFORM MULTILILINGUAL MEDIA PACK BPO1NML

IBM Tivoli Network Manager IP Edition V3.9.0 (5724-S45)

Media packs
description Part number

IBM Tivoli Network Manager IP Edition V3.9.0
MULTIPLATFORM MULTILILINGUAL MEDIA PACK BPO1CML

IBM Tivoli Netcool Configuration Manager V6.4.1 (5725-F56)

Media packs
description Part number

IBM Tivoli Netcool Configuration Manager V6.4.1
Base Multiplatform English Media Pack BJ15LEN

IBM Tivoli Netcool Configuration Manager
Configuration Standard Device v6.4 Multiplatform
English Media Pack BJ131EN

IBM Tivoli Netcool Configuration Manager
Configuration Standard BASIC Device V6.4
Multiplatform English Media Pack BJ132EN

IBM Tivoli Netcool Configuration Manager
SmartModel basic Device V6.4 Multiplatform English
Media Pack BJ133EN

IBM Tivoli Netcool Configuration Manager
SmartModel Device V6.4 Multiplatform English
Media Pack BJ134EN

IBM Tivoli Netcool Configuration Manager
SmartModel Complex Device V6.4 Multiplatform English
Media Pack BJ135EN

Current licensees

Current licensees, with support in effect, will automatically be shipped the update.

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

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 Netcool Network Management V9.2.2 (5724-W11)

Base per install

Description	Part number
Base Per Install	
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
Trade Up from OMNIBus, Network Manager or ITNCM	
License + SW Subscription & Support 12 Months	D0LXGLL
Base per Install for zLinux	
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
Trade Up from OMNIBus, Network Manager or ITNCM	
License + SW Subscription & Support 12 Months	D0LXHLL

Entry Tier per Resource Value Unit

Description	Part number
ENTRY TIER PER RESOURCE VALUE UNIT	
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
ENTRY TIER PER RESOURCE VALUE UNIT for zLinux	
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
EVENT BASIC DEVICE TIER PER RESOURCE VALUE UNIT	

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
TRADE UP from OMNIBus	
License + SW Subscription & Support 12 Months	D0LWZLL

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
TRADE UP from OMNIBus	
License + SW Subscription & Support 12 Months	D0LX0LL

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
TRADE UP from OMNIBus	
License + SW Subscription & Support 12 Months	D0LX1LL

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
TRADE UP from OMNIBus	
License + SW Subscription & Support 12 Months	D0LX3LL

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
TRADE UP from OMNIBus	
License + SW Subscription & Support 12 Months	D0LX4LL

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
TRADE UP from OMNIBus	
License + SW Subscription & Support 12 Months	D0LX2LL

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 TRADE UP from IBM Tivoli Netview	D0BA7LL
License + SW Subscription & Support 12 Months TRADE UP from Network Manager	D0BA8LL
License + SW Subscription & Support 12 Months	D0LX6LL
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 TRADE UP from IBM Tivoli Enterprise Console	D0BAALL
License + SW Subscription & Support 12 Months TRADE UP from IBM Tivoli Netview	D0BABLL
License + SW Subscription & Support 12 Months TRADE UP from Network Manager	D0BACLL
License + SW Subscription & Support 12 Months	D0LX7LL

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 TRADE UP from IBM Tivoli Enterprise Console	D0BAELL
License + SW Subscription & Support 12 Months TRADE UP from IBM Tivoli Netview	D0BAFLL
License + SW Subscription & Support 12 Months TRADE UP from Network Manager	D0BAGLL
License + SW Subscription & Support 12 Months	D0LX5LL
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 TRADE UP from IBM Tivoli Enterprise Console	D0BAPLL
License + SW Subscription & Support 12 Months TRADE UP from IBM Tivoli Netview	D0BAQLL
License + SW Subscription & Support 12 Months TRADE UP from Network Manager	D0BARLL
License + SW Subscription & Support 12 Months	D0LXMLL

Configuration Standard Device per Resource Value Unit

Description	Part number
Configuration Standard Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LXWLL
SW Subscription & Support Renewal	E0D3ELL
SW Subscription & Support Reinstatement 12 Months TRADE UP from ITNCM	D0LXXLL
License + SW Subscription & Support 12 Months	D0LXYLL

Configuration Standard Basic Device per Resource Value Unit

Description	Part number
Configuration Standard Basic Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LXZLL
SW Subscription & Support Renewal	E0D3FLL
SW Subscription & Support Reinstatement 12 Months TRADE UP from ITNCM	D0LY0LL
License + SW Subscription & Support 12 Months	D0LY1LL

Smart Model Basic Device per Resource Value Unit

Description	Part number
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Smart Model Basic Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LWGLL
SW Subscription & Support Renewal	E0D2QLL
SW Subscription & Support Reinstatement 12 Months	D0LWHLL
TRADE UP from Configuration Basic Device ITNCM	
License + SW Subscription & Support 12 Months	D0LWJLL
TRADE UP from ITNCM	
License + SW Subscription & Support 12 Months	D0LWILL

Smart Model Device per Resource Value Unit

Description	Part number
Smart Model Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LWKLL
SW Subscription & Support Renewal	E0D2RLL
SW Subscription & Support Reinstatement 12 Months	D0LWLLL
TRADE UP from Configuration Standard Device	
License + SW Subscription & Support 12 Months	D0LWMLL
TRADE UP from ITNCM	
License + SW Subscription & Support 12 Months	D0LWNLL

Smart Model Complex Device per Resource Value Unit

Description	Part number
Smart Model Complex Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LWPLL
SW Subscription & Support Renewal	E0D2SLL
SW Subscription & Support Reinstatement 12 Months	D0LWQLL
TRADE UP from Configuration Standard Device	
License + SW Subscription & Support 12 Months	D0LWRLL
TRADE UP from ITNCM	
License + SW Subscription & Support 12 Months	D0LWSLL

Combined Management Device per Resource Value Unit

Description	Part number
Combined Management Device per Resource value Unit	
License + SW Subscription & Support 12 Months	D0LWTLL
SW Subscription & Support Renewal	E0D2TLL
SW Subscription & Support Reinstatement 12 Months	D0LWULL

Event Forwarding per Connection

Description	Part number
Event Forwarding per Connection	
License + SW Subscription & Support 12 Months	D0W7GLL
SW Subscription & Support Renewal	E0FW8LL
SW Subscription & Support Reinstatement 12 Months	D0W7HLL
Event Forwarding per Connection for Linux on System Z	
License + SW Subscription & Support 12 Months	D0W7ILL
SW Subscription & Support Renewal	E0FW9LL
SW Subscription & Support Reinstatement 12 Months	D0W7JLL

Data Exchange per Connection

Description	Part number
Data Exchange per Connection	
License + SW Subscription & Support 12 Months	D0W7KLL
SW Subscription & Support Renewal	E0FWALL
SW Subscription & Support Reinstatement 12 Months	D0W7LLL
Data Exchange per Connection for Linux on System Z	

License + SW Subscription & Support 12 Months	D0W7MLL
SW Subscription & Support Renewal	E0FWBLL
SW Subscription & Support Reinstatement 12 Months	D0W7NLL

IBM Tivoli Netcool/OMNIBus V7.4 (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
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BV6LL
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
TRADE UP from IBM TIVOLI ENTERPRISE CONSOLE	
License + SW Subscription & Support 12 Months	D0BV5LL

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
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 Forwarding per Connection

Description	Part number
Event Forwarding per Connection License + SW Subscription & Support 12 Months	D0VSULL
SW Subscription & Support Renewal	E0FGXLL
SW Subscription & Support Reinstatement 12 Months	D0VT5LL
Event Forwarding per Connection for Linux on System Z License + SW Subscription & Support 12 Months	D0VTLLL
SW Subscription & Support Renewal	E0FHJLL
SW Subscription & Support Reinstatement 12 Months	D0VTULL

Data Exchange per Connection

Description	Part number
Data Exchange per Connection License + SW Subscription & Support 12 Months	D0VVYLL
SW Subscription & Support Renewal	E0FK0LL
SW Subscription & Support Reinstatement 12 Months	D0VWDLL
Data Exchange per Connection for Linux on System Z License + SW Subscription & Support 12 Months	D0VWWLL
SW Subscription & Support Renewal	E0FKSLL
SW Subscription & Support Reinstatement 12 Months	D0VX2LL

IBM Tivoli Network Manager IP Edition V4.1.1 (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

Description	Part 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	E0BKSL
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

IBM Tivoli Netcool Configuration Manager V6.4.1 (5725-F56)

Base per install

Description	Part number
BASE PER INSTALL	
License + SW Subscription & Support 12 Months	DOM1RLL
SW Subscription & Support Renewal	E0D6ALL
SW Subscription & Support Reinstatement 12 Months	DOM1SLL

Configuration Standard Device per Resource Value Unit

Description	Part number
Configuration Standard Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LUKLL
SW Subscription & Support Renewal	E0D1RLL
SW Subscription & Support Reinstatement 12 Months	D0LULLL

Configuration Standard Basic Device per Resource Value Unit

Description	Part number
Configuration Standard Basic Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LUMLL
SW Subscription & Support Renewal	E0D1SLL
SW Subscription & Support Reinstatement 12 Months	D0LUNLL

SmartModel Basic Device per Resource Value Unit

Description	Part number
SmartModel Basic Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LUPLL
SW Subscription & Support Renewal	E0D1TLL
SW Subscription & Support Reinstatement 12 Months	D0LUQLL
TRADE UP from Configuration Manager Configuration Standard Basic Device License + SW Subscription & Support 12 Months	D0LURLL

SmartModel Device per Resource Value Unit

Description	Part number
SmartModel Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LUSLL
SW Subscription & Support Renewal	E0D1ULL
SW Subscription & Support Reinstatement 12 Months	D0LUTLL
TRADE UP from Configuration Manager Configuration Standard Device License + SW Subscription & Support 12 Months	D0LUULL

SmartModel Complex Device per Resource Value Unit

Description	Part number
SmartModel Complex Device per Resource Value Unit	
License + SW Subscription & Support 12 Months	D0LUVLL

SW Subscription & Support Renewal	E0D1VLL
SW Subscription & Support Reinstatement 12 Months	D0LUWLL
TRADE UP from Configuration Manager Configuration Standard Device License + SW Subscription & Support 12 Months	D0LUXLL

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

IBM Netcool Network Management V9.2.2 (5724-W11)

Part number	Description
BJ15KML	IBM Netcool Network Management V9.2.2 Base Multiplatform Multilingual Media Pack

IBM Tivoli Netcool/OMNIBus V7.4 (5724-S44)

Part number	Description
BP01FML	IBM Tivoli Netcool/OMNIBus V7.4 BASE MULTIPLATFORM MULTILINGUAL MEDIA PACK
BP01HEN	IBM Tivoli Netcool/OMNIBus Event Forwarding V7.4 MULTIPLATFORM MULTILINGUAL MEDIA PACK
BP01IEN	IBM Tivoli Netcool/OMNIBus Data Exchange V7.4 MULTIPLATFORM ENGLISH MEDIA PACK

IBM Tivoli Network Manager IP Edition V4.1.1 (5724-S45)

Part number	Description
BP01NML	IBM Tivoli Network Manager IP Edition V4.1.1 MULTIPLATFORM MULTILINGUAL MEDIA PACK

IBM Tivoli Network Manager IP Edition V3.9.0 (5724-S45)

Part number	Description
BP01CML	IBM Tivoli Network Manager IP Edition V3.9.0 MULTIPLATFORM MULTILINGUAL MEDIA PACK

IBM Tivoli Netcool Configuration Manager V6.4.1 (5725-F56)

Part number	Description
BJ15LEN	IBM Tivoli Netcool Configuration Manager V6.4.1 Base Multiplatform Multilingual Media Pack
BJ131EN	IBM Tivoli Netcool Configuration Manager Configuration Standard Device v6.4 Multiplatform English Media Pack
BJ132EN	IBM Tivoli Netcool Configuration Manager Configuration Standard BASIC Device V6.4 Multiplatform English Media Pack
BJ133EN	IBM Tivoli Netcool Configuration Manager SmartModel Basic Device V6.4 Multiplatform English Media Pack
BJ134EN	IBM Tivoli Netcool Configuration Manager SmartModel Device V6.4 Multiplatform English Media Pack
BJ135EN	IBM Tivoli Netcool Configuration Manager SmartModel Complex Device V6.4 Multiplatform English Media Pack

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License Information number

- IBM Netcool Network Management: L-PPAN-9H7NPJ
- IBM Tivoli Netcool/OMNIBus: L-DWIN-8W2R72
- IBM Tivoli Network Manager IP Edition: L-PPAN-9H7NWJ, L-IWAE-8BXULX
- IBM Tivoli Netcool Configuration Manager: L-IWHE-98CH53

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Limited warranty

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Other terms

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No

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No

Variable charges apply

No

Educational allowance available

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