

# IBM Netcool Operations Insight V1.2, IBM Tivoli Netcool/OMNIBus V8.1, and IBM Netcool/Impact V7.1 bring new insights enabling more effective IT and network operations

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## At a glance

IBM<sup>(R)</sup> Netcool<sup>(R)</sup> Operations Insight V1.2, includes new releases of IBM Tivoli<sup>(R)</sup> Netcool/OMNIBus and IBM Tivoli Netcool/Impact that are extended with the network management capabilities of IBM Tivoli Netcool Network Manager and IBM Tivoli Configuration Manager.

The new release:

- Provides deeper operational insight across the IT and network infrastructure driving further efficiencies for more agile and leaner operations.
- Allows unique visibility into time based patterns affecting system health, enabling proactive actions to reduce recurring problems for greater operational efficiency.
- Brings operational visibility to the business providing dynamic incident and service information to key stake holders through IBM Connections.
- Extends event reduction and correlation capabilities with network discovery and topology based root-cause analysis.
- Enables network configuration and compliance helping identification and recovery of network change related incidents.
- Consolidates operations tools into intuitive customizable event and business-oriented views, with new thin client capabilities and enhanced self-service dashboards.
- Enables faster problem identification, reduced time to resolution, and enhanced service levels resulting in improved productivity and lower operational costs.

## Overview

**IBM Netcool Operations Insight V1.2** combines the market-leading real-time event consolidation and correlation capabilities of IBM Tivoli Netcool/OMNIBus and the transformative power of IT operations analytics extended to cover the application logs of Netcool Operations Insight. It also covers up to 2GB of data from other applications, for example, monitoring data, trouble tickets, and support documentation, to further provide operations with context and insight to increase operational agility and operational efficiency.

New event seasonality analysis assists in detecting regularly occurring events, enabling more proactive automation and resolution. Version 1.2 also provides real-time enrichment and sophisticated correlation to enable agile responses to alerts raised across disparate systems, including application topology. Enablement of social media interactions from within the system helps extend operational visibility to the

business by providing dynamic incident and service information to key stake holders through IBM Connections.

IBM Netcool Operations Insight includes an optional feature for cost effective network discovery, visualization, event correlation and root-cause analysis, configuration and compliance management to enable service assurance of dynamic network infrastructures. These tightly integrated capabilities bring the power of IBM Tivoli Network Manager IP Edition and IBM Tivoli Netcool Configuration Manager directly to IBM Netcool Operations Insight users.

The strong event correlation and analysis functionality, coupled with rapid deployment, ease of use, high resilience, and exceptional scalability and performance, rapidly delivers a holistic view of operations across the entire managed infrastructure with actionable information into business impacting problems. With the resulting consolidated information, an organization can manage business-critical problems faster, contributing to significantly better business outcomes.

**IBM Tivoli Netcool/OMNIBus V8.1** includes the following key enhancements:

- Richer user experience with new look and feel for data integration at the dashboard.
- Improved thin client capability with the addition of tools making the Event Viewer suitable for a significant number of users as an alternative to the Java™ Active Event List.
- Stronger and more flexible data segregation by user and group for multitenant environments.
- Enhanced configuration and data feeds extending support for the W3C Open Services for Lifecycle Collaboration (OSLC) integration capability that may be exploited by IBM, partners, customers and third-party OSS providers.
- Lower cost of ownership through:
  - Improved installation and maintenance process with IBM Installation Manager
  - Enhanced centralized probe configuration
  - Flexible dashboard creation and customization
  - Reduced dependency on Java Runtime Environment (JRE) downloads
  - Self-monitoring dashboards for performance management of the Netcool/OMNIBus applications

**IBM Tivoli Netcool/Impact V7.1** includes the following key enhancements

- Faster install time with IBM Installation Manager: Installs in less than 20 minutes.
- Event isolation and correlation: Take action on correlated events based on discovered application topology.
- Visualization: Seamless navigation between policies, data model, services; improved status and percentage displays.
- Email notification add-on: Simpler, GUI-based configuration of email notifications.
- Policy management: Enhanced policy logging and debugging.

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## Key prerequisites

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

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## Planned availability date

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June 12, 2014: Electronic software delivery  
July 01, 2014: DVD media

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## Description

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**IBM Netcool Operations Insight** delivers operations teams with operational insights by leveraging alarm and alert analytics, combined with broader historic data analytics, to drive efficiencies for more agile and leaner operations. This offering, powered by the market-leading fault management capabilities of IBM Tivoli Netcool/OMNIBus and IBM SmartCloud<sup>(R)</sup> Analytics - Log Analysis, provides powerful event search and analytic capability, combined with purpose built alarm and alert analytics, unified multisolution dashboards, and richer standard capabilities, all in a single solution.

IBM Netcool Operations Insight helps operation teams in business enterprises and service providers to understand:

- What is the status of my operation across all of my operations tools and domains?
- How can I quickly identify problems across my entire infrastructure, regardless of how they are monitored?
- I want to improve my operations monitoring environment by reducing the noise in the system.
- What part of my infrastructure can be more efficient and less costly?
- How can I move beyond reactive problem remediation to identify reoccurring problems in order to become more efficient?
- Are there hard to detect problems that reoccur on a regular basis that are impacting my operations efficiency?

IBM Netcool Operations Insight enables operations in business enterprises and communication service providers that are looking to:

- Increase operational agility: By leveraging real time analytics to identify emerging problems enabling proactive resolution.
- Improve operational efficiency: By applying in context search and event analytics to evaluate historical events to gain actionable insight for problem identification and isolation.
- Increase service availability: By leveraging real-time analytics to reduce noise and prioritize most critical events and alarms for faster incident resolution.
- Integrate their problem detection with social media.
- Manage an ever increasing breadth of systems as an integrated whole.
- Combine rich problem management with a deep control of their network infrastructure.

IBM Netcool Operations Insight V1.2 delivers:

- New correlation engine enhancements, as well as a reduction in dependency on Java Runtime Environment plug-ins. This is enabled through actions on the event viewer and, therefore, provides an event list replacement for majority of users.
- Integration with IBM Connections providing updates of operations status to key stake holders.
- Dashboard Application Services Hub (DASH) deployment of all event management GUI components as well as a new approach to installation of IBM Tivoli Netcool/OMNIBus and IBM Tivoli Netcool/Impact, resulting in a significantly improved experience for the user unfamiliar with networks.
- An update of new integrations delivering updated version support for key enterprise and Communication Service Provider systems, including the latest version of the Alcatel Lucent (ALU) 5620.

**IBM Tivoli Netcool/OMNIBus V8.1** helps organizations maximize service availability, providing market-leading event consolidation, correlation, and analysis capability across the broadest range of today's dynamic infrastructures.

**IBM Tivoli Netcool/Impact V7.1** provides a flexible, dynamic, common platform for real-time data access that can more easily circumvent traditional organizational boundaries. Armed with data from virtually any data source, administrators can correlate, calculate, enrich, deliver, visualize, and perform a wide range of automated actions.

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

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A US 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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### **Reference information**

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For more information about IBM Netcool Operations Insight V1.1, refer to Software Announcement [214-071](#), dated February 25, 2014.

For more information about IBM Tivoli Netcool/OMNIBus V7.4, refer to Software Announcement [212-459](#), dated November 27, 2012.

For more information about IBM Tivoli Netcool/Impact V6.1.1, refer to Software Announcement [213-068](#), dated March 05, 2013.

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### **Program number**

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Program number	VRM	Program name
5725-Q09	1.2.0	IBM Netcool Operations Insight
5724-S44	8.1.0	IBM Tivoli Netcool/OMNIBus
5724-S43	7.1.0	IBM Tivoli Netcool/Impact

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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<sup>(R)</sup> website

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

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### **Publications**

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For these products, no printed publications are shipped with the product. The following publications will only be available in PDF format and may be downloaded

on the planned availability date, June 12, 2014. Refer to the Knowledge Center to download the PDF guides:

- **IBM Netcool Operations Insight V1.2**

- Quick Start Guide
- Integration Guide

<http://www-01.ibm.com/support/knowledgecenter/SSTPTP/welcome>

- **IBM Tivoli Netcool/OMNIBus V8.1**

- Installation and Deployment Guide
- Administration Guide
- Probe & Gateway Guide
- Event Integration Facility Reference
- Release Notes
- HTTP Interface Reference
- OSLC Interface Reference
- Web GUI Administration and User's Guide
- Web GUI Administration API (WAAPI) User's Guide

<http://www-01.ibm.com/support/knowledgecenter/SSSHTQ/landingpage/NetcoolOMNIBus.html>

- **IBM Tivoli Netcool/Impact V7.1**

- Quick Start Guide
- Administration Guide
- Solutions Guide
- Policy Reference Guide
- User Interface Guide
- DSA Reference Guide
- Operator View Guide
- Release Notes

<http://www-01.ibm.com/support/knowledgecenter/SSSHYH/welcome>

- **IBM SmartCloud<sup>®</sup> Analytics - Log Analysis**

- Installation and Administration Guide
- User's Guide
- Troubleshooting Guide
- Extending Guide
- Quick Start Guide

<http://www-01.ibm.com/support/knowledgecenter/SSPFMY/welcome>

- **IBM Tivoli Network Manager IP Edition V4.1.1**

- Quick Start Guide
- Product Overview
- Installation and Configuration Guide
- Getting Started Guide
- Administration Guide
- Discovery Guide
- Event Management Guide
- Network Visualization Setup Guide
- Topology Database Reference
- Network Troubleshooting Guide
- Management Database Reference

- Language Reference
- Perl API Guide
- IBM Tivoli Monitoring for Tivoli Network Manager IP User's Guide
- Release Notes

[http://www-01.ibm.com/support/knowledgecenter/SSSHRK\\_4.1.0/itm/ ip/wip/common/reference/nmip\\_ref\\_pdfbookset.html](http://www-01.ibm.com/support/knowledgecenter/SSSHRK_4.1.0/itm/ ip/wip/common/reference/nmip_ref_pdfbookset.html)

- **IBM Tivoli Netcool Configuration Manager V6.4.1**

- Quick Start Guide
- Installation and Configuration Guide
- User Guide
- Administration Guide
- Reference Guide
- API Guide
- NSM REST API Guide
- Integration Guide
- Quick Start Guide
- Release Notes
- Drivers 18 Release Notes

[http://www-01.ibm.com/support/knowledgecenter/SS7UH9\\_6.4.1/com.ibm.netcool\\_configurationmgr.doc\\_6.4.1/ncm/wip/common/reference/ncm\\_ref\\_PDFdocset.html](http://www-01.ibm.com/support/knowledgecenter/SS7UH9_6.4.1/com.ibm.netcool_configurationmgr.doc_6.4.1/ncm/wip/common/reference/ncm_ref_PDFdocset.html)

## Technical information

### **Specified operating environment**

#### **Hardware requirements**

Go to the following website and select "Hardware requirements" and then select the information needed under the product version.

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity/index.jsp>

#### **Software requirements**

Go to the following website and select "Detailed system requirements" and then select the information needed under the product version.

<http://publib.boulder.ibm.com/infocenter/prodguid/v1r0/clarity/index.jsp>

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.

#### **Performance considerations**

IBM Netcool Operations Insight V1.2 with IBM DB2<sup>®</sup> offers significantly increased data protection, scalability and performance for its external database intensive operations that are based on IBM DB2 technology which 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.

## ***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**

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### ***Direct customer support***

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

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

### ***Packaging***

The products in the announcement are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- 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**

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The products in the announcement use the security and auditability features of the operating system software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## **Software Services**

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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 for IBM Netcool Operations Insight

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**IBM Netcool Operations Insight V1.2** is entitled using the following metric definitions.

#### Managed Virtual Server

Licensee must obtain entitlement for each Virtual Server managed by the program regardless of any intermediate consolidation application. An unpartitioned physical server counts as a single virtual server. Examples of servers include, but are not limited to, servers, logical partitions, and Integrated Facility for Linux™ (IFL) processors.

#### Managed Virtual Network Device

Licensee must obtain entitlement for each Virtual Network Device managed by the program regardless of any intermediate consolidation application. An unpartitioned physical device counts as a single virtual Network Device. Examples of Network Device include, but are not limited to, switches, routers, bridges, hubs, and firewalls.

#### Managed Client Device

Licensee must obtain entitlement for each Client Device managed by the program regardless of any intermediate consolidation application. Examples of Client Device include, but are not limited to, actuators, appliances, automated teller machines, automatic meter readers, cash registers, disk drives, desktop computers, kiosks, notebook computers, personal digital assistant, point-of-sale terminals, sensors, smart meters, tape drives, technical workstations printers, VoIP telephones, dsl modems, cable modems, and assets such as production equipment, facilities-related items, and transportation-related items.

**IBM Netcool Operations Insight** is priced using the above metrics applied to the following components.

#### IBM Netcool Operations Insight Operations Management

The IBM Netcool Operations Insight Operations Management component is entitled by Managed Virtual Server, Managed Virtual Network Device, and Managed Client Device. The licensee must obtain entitlement for each Virtual Server, Virtual Network Device and Client Device managed by the program where the Insight functionality is required. This covers event management, enrichment, event search and seasonality.

#### IBM Netcool Operations Insight Network Management

The IBM Netcool Operations Insight Network Management component This part is entitled by Managed Virtual Server, Managed Virtual Network Device, and Managed Client Device. The licensee must obtain entitlement for each Virtual Server, Virtual Network Device and Client Device managed by the program where Network Management functionality is required. This covers discovery, polling and configuration management.

#### IBM Netcool Operations Insight Connection

Each instance of an application or system integrated with the program for purposes other than event collection is considered to be a Connection. Examples include, but



are not limited to, use of the program's gateways, data source adaptors, or API for the purposes for event archive, integration with Trouble Ticketing, and other Operational Support Systems.

Integrations to the licensee's IBM Cloud and Smarter Infrastructure applications, excluding SmartCloud Orchestrator, or the forwarding of current active data for display in user interfaces are not counted.

The program has embedded high availability and is licensed solely on the basis of the environment managed. For the avoidance of doubt this means that no additional entitlements are required to entitle high availability.

Use of IBM SmartCloud Analytics - Log Analysis is limited to the processing of events managed by the program and the application log files generated by the program. Search of additional data types (for example, trouble tickets, third-party logs, and support documentation) is also entitled for 2 Gb per day averaged over 30 days. Separate entitlement is required for any other use of IBM SmartCloud Analytics - Log Analysis.

Where IBM DB2 is entitled for limited use by the supporting programs of Netcool Operations Insight, licensee may leverage a common DB2 install for the supporting programs within the terms of the restricted use licenses.

## **Licensing metric definitions for IBM Tivoli Netcool/OMNIBus**

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**IBM Tivoli Netcool/OMNIBus V8.1** is entitled using the following 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.

**IBM Tivoli Netcool/OMNIbus** is entitled 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 RVUs:

- IBM Tivoli Netcool/OMNIbus Event Device
- IBM Tivoli Netcool/OMNIbus Event Basic Device
- IBM Tivoli Netcool/OMNIbus Event EMS
- IBM Tivoli Netcool/OMNIbus Event Q3 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, Event EMS, or Event Q3 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, 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<sup>(R)</sup> or System z<sup>(R)</sup> 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 Q3 EMS is an instance of an Element Management System, which is interfaced via the Q3 protocol

#### 4. RVU conversion table (VUE 141)

- 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

Where IBM DB2 is entitled for limited use for Tivoli Netcool/OMNIbus and its supporting programs, licensee may leverage a common DB2 install for Tivoli Netcool/OMNIbus and the supporting programs within the terms of the restricted use licenses.

### **Licensing metric definitions for IBM Tivoli Netcool/Impact**

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**IBM Tivoli Netcool/Impact** is entitled using the following definitions.

#### **Install**

Reference definition above.

#### **RVU**

Reference definition above.

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.

**IBM Tivoli Netcool/Impact** is entitled using the following chargeable components and metrics.

IBM Tivoli Netcool/Impact is license per install. Each Tivoli Netcool/Impact application instance is considered a single install of Tivoli Netcool/Impact. It is also licensed by tier by the amount of each type of technology that each Tivoli Netcool/Impact install (application instances) uses. The number of RVUs required per tier is defined below. Volume scaling is applied to each tier as indicated below per specific Volume Unit Exhibit (VUE 129).

#### **Tier 1 IBM Tivoli Netcool/Impact**

This is counted by the number of Tivoli Netcool/Impact installs (application instances) any of each of the following technologies is used with:

- IBM DB2
- Informix<sup>(R)</sup>
- Microsoft SQL server
- ODBC
- Oracle
- PostgresSQL
- Sybase
- MySQL
- Flat files
- XML destinations
- LDAP
- TCP/IP Socket

#### **Tier 1 third-party IBM Tivoli Netcool/Impact**

This is counted by the number of Tivoli Netcool/Impact installs (application instances) any of each of the following technologies is used with:

- SNMP

#### **Tier 2 IBM Tivoli Netcool/Impact**

This is counted by the number of Tivoli Netcool/Impact installs (application instances) any of each of the following technologies is used with:

- Alcatel 5620
- Cramer Dimension
- Smallworld

#### **Tier 3 IBM Tivoli Netcool/Impact**

This is counted by the number of Tivoli Netcool/Impact installs (application instances) any of each of the following technologies is used with:

- Vitria
- JMS

#### **Tier 3 third-party IBM Tivoli Netcool/Impact**

This is counted by the number of Tivoli Netcool/Impact installs (application instances) any of each of the following technologies is used with:

- Tibco
- Web services

## RVU conversion table (VUE 129)

- From 1 to 2 Resources, 1.0 RVUs per Resource
- From 3 to 5 Resources, 2 RVUs plus 0.9 RVUs per Resource above 2
- From 6 to 10 Resources, 5 RVUs plus 0.8 RVUs per Resource above 5
- From 11 to 20 Resources, 9 RVUs plus 0.7 RVUs per Resource above 10
- For more than 20 Resources, 16 RVUs plus 0.6 RVUs per Resource above 20

## Pricing examples for IBM Netcool Operations Insight

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### Example 1

Customer wants to manage 100 physical servers, each running 6 virtual servers, and 50 network devices, none of which are virtualized. The management system is running in a highly available configuration.

The customer requires:

Quantity Requirement

600 IBM Netcool Operations Insight Operations Management  
Managed Virtual Servers

50 IBM Netcool Operations Insight Operations Management  
Managed Virtual Network Devices

There is no volume reduction calculation to take place and the high availability configuration does not require any additional entitlements.

### Example 2

Customer wants to add Network Management capability to all the network devices and half of the physical servers in Example 1.

The customer requires items in Example 1 plus the following:

Quantity Requirement

50 IBM Netcool Operations Insight Network Management Managed  
Virtual Network Devices

300 IBM Netcool Operations Insight Network Management Managed  
Virtual Servers

There is no volume reduction calculation to take place and the high availability configuration does not require any additional entitlements.

### Example 3

Customer wants to manage 10,000 automated meter readers and enrich the event information from data held in a IBM DB2 database, which has been populated by a third-party configuration system and from a billings system.

The customer requires a quantity of:

Quantity Requirement

10,000 IBM Netcool Operations Insight Managed Client Devices

2 IBM Netcool Operations Insight Connections

There are two applications being connected to configuration and billing even though a single database is being used. There are no separate parts required for ObjectServer or Impact installs.

## Pricing examples for IBM Tivoli Netcool/OMNIBus

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### Example 1

Customer requires one application instance of Netcool/Omnibus and would like event management capabilities for 1,250 event devices and ten EMS devices.

The customer requires a quantity of the following entitlements:

Quantity	Requirement
1	IBM Tivoli Netcool/OMNIBus Base
835	IBM Tivoli Netcool/OMNIBus Event Devices RVU Per above, RVU conversion table VUE141 - From 751 to 1,250 Resources, 585 RVUs plus 0.5 RVUs per Resource above 750
10	IBM Tivoli Netcool/OMNIBus Event EMS Per above, RVU conversion table VUE141 - From 1 to 100 Resources, 1.0 RVU per Resource, 10 x 1 = 10 RVUs

## Pricing examples for IBM Tivoli Netcool/Impact

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### Example 1a

ABC Consumer Goods deploys IBM Tivoli Netcool/Impact over two application instances across four processors (multiprocessor capable) on two servers and each appliance instance interfaces with Oracle, LDAP, and DB2 databases. You calculate two Tivoli Netcool/Impact application instances connecting to three Tier 1 databases each equals six DSA Tier 1 connections.

Impact DSA Tier 1	Quantity in customer environment	Installs required	Net Resource Value Units required
Impact Installs	2	2	
Impact Tier 1	6		6

### Example 1b

ABC Consumer Goods deploys IBM Tivoli Netcool/Impact over three application instances across six processors (multiprocessor capable) on three servers and each application instance interfaces to Oracle databases, LDAP systems, TCP/IP Sockets, and XML.

You calculate three Tivoli Netcool/Impact application instances interfacing to four Tier 1 databases each equals 12 DSA Tier 1 connections.

Impact DSA Tier 1	Quantity in customer environment	Installs required	Net Resource Value Units required
Impact Installs	3	3	
Impact Tier 1	12		11

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## Ordering information

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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](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/>

Product group: Tivoli  
 Product Identifier Description (PID)  
 IBM Netcool Operations Insight (5725-Q09)  
 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 Netcool/Impact (5724-S43)  
 Product category: Network Management and Performance

**Passport Advantage trade up**

You must have previously acquired a license for the following precursor product to be eligible to acquire an equivalent license of the trade-up product.

**Trade ups from IBM Tivoli Netcool/OMNIBus to IBM Netcool Operations Insight - Operations Management chargeable component**

Precursor product	Trade-up product	Trade-up part number
From: IBM Tivoli Netcool/OMNIBus	To: IBM Netcool Operations Insight	
OMNIBus Device	Managed Virtual Server Trdup Lic + SW S&S 12 Mo	D141XLL
OMNIBus Device for Linux on System z	Managed Virtual Server Z Trdup Lic + SW S&S 12 Mo	D143QLL
OMNIBus Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D1423LL
OMNIBus Device for Linux on System z	Managed Virtual Network Device Z Trdup Lic + SW S&S 12 Mo	D143SLL
OMNIBus Basic Device	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D142ALL
OMNIBus Basic Device Linux on Syst z	10 Managed Client Device Z Trdup Lic + SW S&S 12 Mo	D143VLL

**Trade ups from IBM Netcool Network Management to IBM Netcool Operations Insight - Operations Management chargeable component**

Precursor product	Trade-up product	Trade-up part number
From:	To:	

IBM Netcool Network Management	IBM Netcool Operations Insight	
Entry Device	Managed Virtual Server Trdup Lic + SW S&S 12 Mo	D15R1LL
Entry Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15QZLL
Entry Device	Managed Virtual Network Device Z Trdup Lic + SW S&S 12 Mo	D15QXLL
Entry Device Linux on Syst z	Managed Virtual Server Z Trdup Lic + SW S&S 12 Mo	D15R5LL
Combined Device	Managed Virtual Server Trdup Lic + SW S&S 12 Mo	D15R2LL
Combined Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15R0LL
Event Device	Managed Virtual Server Trdup Lic + SW S&S 12 Mo	D15RWLL
Event Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15QYLL
Event Device	Managed Virtual Network Device Z Trdup Lic + SW S&S 12 Mo	D15QWLL
Event Device Linux on Syst z	Managed Virtual Server Z Trdup Lic + SW S&S 12 Mo	D15R3LL
Event Basic Device	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D15QTLL
Event Basic Device Linux on Syst z	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D15QSL

**Trade ups from IBM Netcool Network Management to IBM Netcool Operations Insight - Network Management chargeable component**

Precursor product	Trade-up product	Trade-up part number
From: IBM Netcool Network Management	To: IBM Netcool Operations Insight	
Entry Device	Managed Virtual Server Trdup Lic + SW S&S 12 Mo	D15IVLL
Combined Device	Managed Virtual Server Trdup Lic + SW S&S 12 Mo	D15IWLL
Entry Device Linux on Syst z	Managed Virtual Server Trdup Lic + SW S&S 12 Mo	D15IZLL
Entry Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15J2LL
Combined Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15J3LL
Network Device	Managed Virtual Network	



	Device Trdup Lic + SW S&S 12 Mo	D15J4LL
Configuration Standard Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15J5LL
SmartModel Device Resource	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15J6LL
SmartModel Complex Device Resource	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15KILL
Entry Device Linux on Syst z	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15J9LL
Network Device Linux on Syst z	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15JALL
Network Basic Device Linux on Syst z	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D15JJLL
Network Basic Device	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D15JELL
Configuration Standard Basic Device	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D15JFLL
SmartModel Basic Device Resource	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D15JGLL

**Trade ups from IBM Tivoli Network Manager to IBM Netcool Operations Insight - Network Management chargeable component**

Precursor product	Trade-up product	Trade-up part number
From: IBM Tivoli Network Manager	To: IBM Netcool Operations Insight	
Network Device Tier Resource	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15KJLL
Network Basic Device Tier Resource	10 Managed Client Devices Trdup Lic + SW S&S 12 Mo	D15KNLL
Network Device Tier Resource Linux on Syst z	Managed Virtual Network Device Linux on Syst z Trdup Lic + SW S&S 12 Mo	D15JBLL
Network Basic Device Tier Resource Linux on Syst z	10 Managed Client Device Trdup Lic + SW S&S 12 Mo	D15JKLL

**Trade ups from IBM Tivoli Netcool Configuration Manager to IBM Netcool Operations Insight - Network Management chargeable component**

Precursor product	Trade-up product	Trade-up part number
From: IBM Tivoli Netcool Configuration Manager	To: IBM Netcool Operations Insight	

Configuration Standard Device	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15KLL
SmartModel Device Resource	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15KLLL
SmartModel Complex Device Resource	Managed Virtual Network Device Trdup Lic + SW S&S 12 Mo	D15KMLL
Configuration Standard Basic Device Resource	10 Managed Client Devices Trdup Lic + SW S&S 12 Mo	D15KPLL
SmartModel Basic Device Resource	10 Managed Client Devices Trdup Lic + SW S&S 12 Mo	D15KQLL

**Trade ups from IBM Tivoli Netcool/OMNIBus to IBM Netcool Operations Insight - Connection chargeable component**

Precursor product	Trade-up product	Trade-up part number
From: IBM Tivoli Netcool/OMNIBus	To: IBM Netcool Operations Insight	
OMNIBus Event Forwarding	Connection Trdup Lic + SW S&S 12 Mo	D142FLL
OMNIBus Event Forwarding Linux on System z	Connection Z Trdup Lic + SW S&S 12 Mo	D143WLL
OMNIBus Data Exchange	Connection Trdup Lic + SW S&S 12 Mo	D142GLL
OMNIBus Data Exchange Linux on System z	Connection Z Trdup Lic + SW S&S 12 Mo	D143XLL

**Trade ups from IBM Netcool Network Management to IBM Netcool Operations Insight - Connection chargeable component**

Precursor product	Trade-up product	Trade-up part number
From: IBM Netcool Network Management	To: IBM Netcool Operations Insight	
Event Forwarding	Connection Trdup Lic + SW S&S 12 Mo	D15QQLL
Event Forwarding Linux on System z	Connection Z Trdup Lic + SW S&S 12 Mo	D15QNLL
Data Exchange	Connection Trdup Lic + SW S&S 12 Mo	D15QRLL
Data Exchange Linux on System z	Connection Z Trdup Lic + SW S&S 12 Mo	D15QPLL

**Trade ups from IBM Tivoli Netcool/Impact to IBM Netcool Operations Insight - Connection chargeable component**

Precursor product	Trade-up product	Trade-up part number
From: IBM Tivoli Netcool/Impact	To: IBM Netcool Operations Insight	

Impact Data Source Adapter Tier 1	Connection Trdup Lic + SW S&S 12 Mo	D142HLL
Impact Data Source Adapter Tier 2	Connection Trdup Lic + SW S&S 12 Mo	D142ILL
Impact Data Source Adapter Tier 3	Connection Trdup Lic + SW S&S 12 Mo	D142JLL
Impact Data Source Adapter Tier 1 Linux on System z	Connection Z Trdup Lic + SW S&S 12 Mo	D143YLL
Impact Data Source Adapter Tier 2 Linux on System z	Connection Z Trdup Lic + SW S&S 12 Mo	D143ZLL
Impact Data Source Adapter Tier 3 Linux on System z	Connection Z Trdup Lic + SW S&S 12 Mo	D1440LL

Consult your IBM representative if you have any questions.

### Trade ups from IBM Tivoli Enterprise Console<sup>(R)</sup> to IBM Tivoli Netcool/ OMNIBus

Precursor product	Trade-up product	Trade-up part number
From: IBM Tivoli Enterprise Console RVU	To: IBM Tivoli Netcool/OMNIBus	
TIV ENTERPRISE CONSOLE RVU	TNOMNI EVENTDEV TIER TRDUP LIC + SW S&S 12 MO	D0BAVLL
TIV ENT CONS RVU ZLINUX	TNOMNI EVENTDEV TIER TRDUP LIC + SW S&S 12 MO	D0BB1LL
TIV ENT CONS RVU	TNOMNI EVENTEMS TIER TRDUP LIC + SW S&S 12 MO	D0BB7LL
TIV ENT CONS RVU ZLINUX	TNOMNI EVENTEMS TIER TRDUP LIC + SW S&S 12 MO	D0BBILL
TIV ENTER CONSOLE INST	TNOMNI BASE Z PER INST TRDUP LIC + SW S&S 12 MO	D0BV5LL
TIV ENTER CONSOLE INTLL	TNOMNI BASE PER INST TRDUP LIC + SW S&S 12 MO	D0BV6LL

### Passport Advantage customer: Media pack entitlement details

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

Media packs description	Part number
(5725-Q09) IBM Netcool Operations Insight V1.2 Multiplatforms English Media Pack	BP01PEN
(5724-S44) IBM Tivoli Netcool/OMNIBus v8.1 Base Multilingual Multiplatform Event Forwarding En Multiplatform Data Exchange En Multiplatform	BP01QML BP01REN BP01SEN
(5724-S43) IBM Tivoli Netcool/Impact v7.1 MEDIA PACK MULTIPLATFORM MULTILINGUAL	BP01TML

## New licensees

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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 Software Subscription and Support (SW S&S) 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 SW S&S. SW S&S in the second year can be prorated to be coterminous with your common anniversary date. Thereafter, all SW S&S will renew at the the common anniversary date for twelve full months of SW S&S.

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 SW S&S.

The quantity to be specified for the Passport Advantage part numbers in the following table is per Managed Virtual Server or per Managed Virtual Network Device. To order for Passport Advantage, specify the desired part number and quantity.

### IBM Netcool Operations Insight (5725-Q09)

#### IBM Netcool Operations Insight - Operations Management

Description	Part number
IBM Netcool Operations Insight - Operations Management PA Managed Virtual Server	
Lic + SW S&S 12 Mo	D141VLL
Annual SW S&S Rnw1	E0J97LL
SW S&S Reinstate 12 Mo	D141WLL
From OMNI Device Trdup Lic + SW S&S 12 Mo	D141XLL
IBM Netcool Operations Insight - Operations Management PA Managed Virtual Server for Linux on System z	
Lic + SW S&S 12 Mo	D141ZLL
Annual SW S&S Rnw1	E0J98LL
SW S&S Reinstate 12 Mo	D1420LL
From OMNI Device Trdup Lic + SW S&S 12 Mo	D143QLL
From NNM Entry Device Trdup Lic + SW S&S 12 Mo	D15R1LL
From NNM Combined Device Trdup Lic + SW S&S 12 Mo	D15R2LL
From NNM Event Device Trdup Lic + SW S&S 12 Mo	D15RWLL
From NNM Event Device for Lin on Sys z Trdup Lic + SW S&S 12 Mo	D15R3LL
From NNM Entry Device for Lin Sys z Trdup Lic + SW S&S 12 Mo	D15R5LL
IBM Netcool Operations Insight - Operations Management PA Managed Virtual Network Device	
Lic + SW S&S 12 Mo	D1421LL
Annual SW S&S Rnw1	E0J99LL
SW S&S Reinstate 12 Mo	D1422LL

From OMNI Device Trdup Lic + SW S&S 12 Mo D1423LL

IBM Netcool Operations Insight - Operations Management  
PA Managed Virtual Network Device for Linux on System z

Lic + SW S&S 12 Mo D1426LL  
Annual SW S&S Rnw1 E0J9ALL  
SW S&S Reinstate 12 Mo D1427LL

From OMNI Device Trdup Lic + SW S&S 12 Mo D143SLL  
From NNM Event Device Trdup Lic + SW S&S 12 Mo D15QYLL  
From NNM Entry Device Trdup Lic + SW S&S 12 Mo D15QZLL  
From NNM Combined Device Trdup Lic + SW S&S 12 Mo D15R0LL  
From NNM Event Device Trdup Lic + SW S&S 12 Mo D15QWLL  
From NNM Entry Device Trdup Lic + SW S&S 12 Mo D15QXLL

IBM Netcool Operations Insight - Operations Management  
PA per 10 Managed Client Device

Lic + SW S&S 12 Mo D1428LL  
Annual SW S&S Rnw1 E0J9BLL  
SW S&S Reinstate 12 Mo D1429LL

From OMNI Basic Device Trdup Lic + SW S&S 12 Mo D142ALL

IBM Netcool Operations Insight - Operations Management  
PA per 10 Managed Client Device for Linux on System z

Lic + SW S&S 12 Mo D142BLL  
Annual SW S&S Rnw1 E0J9CLL  
SW S&S Reinstate 12 Mo D142CLL

From OMNI Basic Device Trdup Lic + SW S&S 12 Mo D143VLL  
From NNM Event Basic Device  
Trdup Lic + SW S&S 12 Mo D15QTLL  
From NNM Event Basic Device Sys Z  
Trdup Lic + SW S&S 12 Mo D15QSLL

## IBM Netcool Operations Insight - Connection

Description Part number

IBM Netcool Operations Insight  
PA per Connection

Lic + SW S&S 12 Mo D142DLL  
Annual SW S&S Rnw1 E0J9DLL  
SW S&S Reinstate 12 Mo D142ELL

From OMNI Event Forwarding Trdup Lic + SW S&S 12 Mo D142FLL  
From OMNI Data Exchange Trdup Lic + SW S&S 12 Mo D142GLL  
From Impact DSA Tier 1 Trdup Lic + SW S&S 12 Mo D142HLL  
From Impact DSA Tier 2 Trdup Lic + SW S&S 12 Mo D142ILL  
From Impact DSA Tier 3 Trdup Lic + SW S&S 12 Mo D142JLL

IBM Netcool Operations Insight  
PA per Connection for Linux on System z

Lic + SW S&S 12 Mo D142KLL  
Annual SW S&S Rnw1 E0J9ELL  
SW S&S Reinstate 12 Mo D142LLL

From OMNI Event Forwarding z Trdup Lic + SW S&S 12 Mo D143WLL  
From OMNI Data Exchange z Trdup Lic + SW S&S 12 Mo D143XLL  
From Impact DSA Tier 1 z Trdup Lic + SW S&S 12 Mo D143YLL  
From Impact DSA Tier 2 z Trdup Lic + SW S&S 12 Mo D143ZLL  
From Impact DSA Tier 3 z Trdup Lic + SW S&S 12 Mo D1440LL

From NNM Event Forwarding Trdup Lic + SW S&S 12 Mo	D15QQLL
From NNM Data Exchange Trdup Lic + SW S&S 12 Mo	D15QRLl
From NNM Event Forwarding z Trdup Lic + SW S&S 12 Mo	D15QNLl
From NNM Data Exchange z Trdup Lic + SW S&S 12 Mo	D15QPLl

## IBM Netcool Operations Insight - Network Management

Description	Part number
IBM Netcool Operations Insight PA per Managed Virtual Server	
Lic + SW S&S 12 Mo	D15ITLL
Annual SW S&S Rnw1	E0JS7LL
SW S&S Reinstate 12 Mo	D15IULL
From NNM Entry Device Trdup Lic + SW S&S 12 Mo	D15IVLL
From NNM Combined Device Trdup Lic + SW S&S 12 Mo	D15IWLL
IBM Netcool Operations Insight PA per Managed Virtual Server for Linux on System z	
Lic + SW S&S 12 Mo	D15IXLL
Annual SW S&S Rnw1	E0JS8LL
SW S&S Reinstate 12 Mo	D15IYLL
From NNM Entry Device z Trdup Lic + SW S&S 12 Mo	D15IZLL
IBM Netcool Operations Insight PA per Managed Virtual Network Device	
Lic + SW S&S 12 Mo	D15J0LL
Annual SW S&S Rnw1	E0JS9LL
SW S&S Reinstate 12 Mo	D15J1LL
From NNM Entry Device Trdup Lic + SW S&S 12 Mo	D15J2LL
From NNM Combined Device Trdup Lic + SW S&S 12 Mo	D15J3LL
From NNM Network Device Trdup Lic + SW S&S 12 Mo	D15J4LL
From NNM Network Configuration Standard Device Trdup Lic + SW S&S 12 Mo	D15J5LL
From NNM Smartmodel Device Resource Trdup Lic + SW S&S 12 Mo	D15J6LL
From NNM Smartmodel Device Resource Trdup Lic + SW S&S 12 Mo	D15K1LL
From ITNM Network Device Tier Resource Trdup Lic + SW S&S 12 Mo	D15K3LL
From ITNCM Configuration Standard Device Trdup Lic + SW S&S 12 Mo	D15K4LL
From ITNCM Smartmodel Device Resource Trdup Lic + SW S&S 12 Mo	D15K5LL
From ITNCM Smartmodel Complex Device Resource Trdup Lic + SW S&S 12 Mo	D15K6LL
IBM Netcool Operations Insight PA per Managed Virtual Network Device for Linux on System z	
Lic + SW S&S 12 Mo	D15J7LL
Annual SW S&S Rnw1	E0JSALL
SW S&S Reinstate 12 Mo	D15J8LL
From NNM Entry Device Z Trdup Lic + SW S&S 12 Mo	D15J9LL
From NNM Network Device Z Trdup Lic + SW S&S 12 Mo	D15JALL
From ITNM Network Device Tier Resource Z Trdup Lic + SW S&S 12 Mo	D15JBLl
IBM Netcool Operations Insight PA Network Management per 10 Managed Client Device	

Lic + SW S&S 12 Mo	D15JCLL
Annual SW S&S Rnwl	E0JSBLL
SW S&S Reinstate 12 Mo	D15JDLL
From NNM Network Basic Device	
Trdup Lic + SW S&S 12 Mo	D15JELL
From NNM Configuration Standard Basic Device	
Trdup Lic + SW S&S 12 Mo	D15JFLL
From NNM Smartmodel Basic Device Resource	
Trdup Lic + SW S&S 12 Mo	D15JGLL
From ITNM Network Basic Device Tier Resource	
Trdup Lic + SW S&S 12 Mo	D15KNLL
From ITNCM Configuration Standard Basic Device	
Resource Trdup Lic + SW S&S 12 Mo	D15KPLL
From ITNCM Smartmodel Basic Device Resource	
Trdup Lic + SW S&S 12 Mo	D15KQLL

IBM Netcool Operations Insight  
PA Network Management per 10 Managed Client Device  
for Linux on System z

Lic + SW S&S 12 Mo	D15JHLL
Annual SW S&S Rnwl	E0JSCLL
SW S&S Reinstate 12 Mo	D15JILL
From NNM Network Basic Device Z	
Trdup Lic + SW S&S 12 Mo	D15JJLL
From ITNM Network Basic Device Tier Resource Z	
Trdup Lic + SW S&S 12 Mo	D15JKLL

Description	Part number
IBM Netcool Operations Insight (5725-Q09) Multi-Platforms English Media Pack V1.2	BP01PEN

### IBM Tivoli Netcool/OMNIBus (5724-S44)

Description	Part number
IBM Tivoli Netcool/OMNIBus Event Basic Device Tier per RVU	
LIC + SW S&S 12 MO	D0B7BLL
ANNUAL SW S&S RNWL	E07UJLL
SW S&S REINSTATE 12 MO	D0B7CLL
IBM Tivoli Netcool/OMNIBus Event Basic Device Tier per RVU for Linux on System z	
LIC + SW S&S 12 MO	D0B7LLL
ANNUAL SW S&S RNWL	E07UPLL
SW S&S REINSTATE 12 MO	D0B7MLL
IBM Tivoli Netcool/OMNIBus Event Device Tier per RVU	
LIC + SW S&S 12 MO	D0B8GLL
ANNUAL SW S&S RNWL	E07UZLL
SW S&S REINSTATE 12 MO	D0B8HLL
IBM Tivoli Netcool/OMNIBus Event Device Tier per RVU for Linux on System z	
LIC + SW S&S 12 MO	D0B8MLL
ANNUAL SW S&S RNWL	E07V1LL
SW S&S REINSTATE 12 MO	D0B8NLL
FROM TIV ENTERPRISE CONSOLE RVU	
TRDUP LIC + SW S&S 12 MO	D0BAVLL
FROM TIV ENT CONS RVU ZLINUX	
TRDUP LIC + SW S&S 12 MO	D0BB1LL

IBM Tivoli Netcool/OMNIBus Event EMS Tier per RVU

LIC + SW S&S 12 MO	D0B9KLL
ANNUAL SW S&S RNWL	E07VALL
SW S&S REINSTATE 12 MO	D0B9MLL

IBM Tivoli Netcool/OMNIBus Event EMS Tier per RVU  
for Linux on System z

LIC + SW S&S 12 MO	D0B9TLL
ANNUAL SW S&S RNWL	E07VDLL
SW S&S REINSTATE 12 MO	D0B9ULL

FROM TIV ENT CONS RVU	
TRDUP LIC + SW S&S 12 MO	D0BB7LL
FROM TIV ENT CONS RVU ZLINUX	
TRDUP LIC + SW S&S 12 MO	D0BBILL

IBM Tivoli Netcool/OMNIBus Base Install

LIC + SW S&S 12 MO	D0BU9LL
ANNUAL SW S&S RNWL	E0882LL
SW S&S REINSTATE 12 MO	D0BUALL

IBM Tivoli Netcool/OMNIBus Base Install  
for Linux on System z

LIC + SW S&S 12 MO	D0BUBLL
ANNUAL SW S&S RNWL	E0883LL
SW S&S REINSTATE 12 MO	D0BUCLL

FROM TIV ENTER CONSOLE INST	
TRDUP LIC + SW S&S 12 MO	D0BV5LL
FROM TIV ENTER CONSOLE INTLL	
TRDUP LIC + SW S&S 12 MO	D0BV6LL

IBM Tivoli Netcool/OMNIBus Event Forwarding Connection

LIC + SW S&S 12 MO	D0VSULL
ANNUAL SW S&S RNWL	E0FGXLL
SW S&S REINSTATE 12 MO	D0VT5LL

IBM Tivoli Netcool/OMNIBus Event Forwarding per Connection  
for Linux on System z

LIC + SW S&S 12 MO	D0VTLLL
ANNUAL SW S&S RNWL	E0FHJLL
SW S&S REINSTATE 12 MO	D0VTULL

IBM Tivoli Netcool/OMNIBus Data Exchange per Connection

LIC + SW S&S 12 MO	D0VVYLL
ANNUAL SW S&S RNWL	E0FK0LL
SW S&S REINSTATE 12 MO	D0VWDLL

IBM Tivoli Netcool/OMNIBus Data Exchange per Connection  
for Linux on System z

LIC + SW S&S 12 MO	D0VWVLL
SW S&S REINSTATE 12 MO	D0VX2LL
ANNUAL SW S&S RNWL	E0FKSLL

Description	Part number
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IBM Tivoli Netcool/OMNIBus V8.1 (5724-S44)

IBM Tivoli Netcool/OMNIBus V8.1 Base Multilingual Multiplatform Media Pack	BP01QML
IBM Tivoli Netcool/OMNIBus Event Forwarding V8.1 English Multiplatform Media Pack	BP01REN
IBM Tivoli Netcool/OMNIBus Data Exchange V8.1 English Multiplatform Media Pack	BP01SEN



## IBM Tivoli Netcool/Impact V7.1 (5724-S43)

Description	Part number
IBM Tivoli Netcool/Impact Base Install	
LIC + SW S&S 12 MO	D612CLL
ANNUAL SW S&S RNWL	E03TSLL
SW S&S REINSTATE 12 MO	D612DLL
IBM Tivoli Netcool/Impact Base Install for Linux on System z	
LIC + SW S&S 12 MO	D0AZJLL
SW S&S REINSTATE 12 MO	D0AZLLL
ANNUAL SW S&S RNWL	E07R5LL
IBM Tivoli Netcool/Impact Tier 1 RVU	
LIC + SW S&S 12 MO	D612GLL
ANNUAL SW S&S RNWL	E03TULL
SW S&S REINSTATE 12 MO	D612HLL
IBM Tivoli Netcool/Impact Tier 1 RVU for Linux on System z	
LIC + SW S&S 12 MO	D0AZMLL
SW S&S REINSTATE 12 MO	D0AZNLL
ANNUAL SW S&S RNWL	E07R7LL
IBM Tivoli Netcool/Impact Tier 1 3rd party RVU	
LIC + SW S&S 12 MO	D612ELL
ANNUAL SW S&S RNWL	E03TLLL
SW S&S REINSTATE 12 MO	D612FLL
IBM Tivoli Netcool/Impact Tier 1 3rd party RVU for Linux on System z	
LIC + SW S&S 12 MO	D0AZPLL
SW S&S REINSTATE 12 MO	D0AZQLL
ANNUAL SW S&S RNWL	E07R8LL
IBM Tivoli Netcool/Impact Tier 2 RVU	
LIC + SW S&S 12 MO	D6126LL
ANNUAL SW S&S RNWL	E03TPLL
SW S&S REINSTATE 12 MO	D6127LL
IBM Tivoli Netcool/Impact Tier 2 RVU for Linux on System z	
LIC + SW S&S 12 MO	D0AZXLL
SW S&S REINSTATE 12 MO	D0AZYLL
ANNUAL SW S&S RNWL	E07R9LL
IBM Tivoli Netcool/Impact Tier 3 RVU	
LIC + SW S&S 12 MO	D612ALL
ANNUAL SW S&S RNWL	E03TRLL
SW S&S REINSTATE 12 MO	D612BLL
IBM Tivoli Netcool/Impact Tier 3 RVU for Linux on System z	
LIC + SW S&S 12 MO	D0AZZLL
SW S&S REINSTATE 12 MO	D0B00LL
ANNUAL SW S&S RNWL	E07RALL
IBM Tivoli Netcool/Impact Tier 3 3rd Party RVU	
LIC + SW S&S 12 MO	D6128LL

ANNUAL SW S&S RNWL SW S&S REINSTATE 12 MO	E03TQLL D6129LL
IBM Tivoli Netcool/Impact Tier 3 3rd Party RVU for Linux on System z	
LIC + SW S&S 12 MO SW S&S REINSTATE 12 MO ANNUAL SW S&S RNWL	D0B01LL D0B02LL E07RBLL
Description	Part number
IBM Tivoli Netcool/Impact v7.1 (5725-S43) MULTIPLATFORM MULTILINGUAL Media Pack	BP01TML

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## Terms and conditions

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The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

This product is only available via Passport Advantage.

### Licensing

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

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

### License Information number

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- L-DWIN-9GVHUC: IBM Netcool Operations Insight
- L-PKEY-B95K3J: IBM Tivoli Netcool/OMNIBus 8.1
- L-NHON-9HTNCX: IBM Tivoli Netcool/Impact

The program's License Information will be available for review on the IBM Software License Agreement website

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

### Limited warranty applies

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Yes

### Limited warranty

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IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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

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

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### **Money-back guarantee**

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

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

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### **Volume orders (IVO)**

No

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### **Passport Advantage applies**

Yes, and through the Passport Advantage website at

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

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### **Software Subscription and Support applies**

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express<sup>®</sup>. Product upgrades and Technical Support are provided by the Software Subscription and Support 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.

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

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

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

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**IBM Operational Support Services - SoftwareXcel**

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No

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**System i Software Maintenance applies**

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No

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**Variable charges apply**

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No

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**Educational allowance available**

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Not applicable.

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**Statement of good security practices**

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IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

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**IBM Electronic Services**

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Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support, all at no additional cost to you.

Now integrated into the base operating system of AIX<sup>(R)</sup> V6.1 and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and

resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

## **Benefits**

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**Increased uptime:** The Electronic Service Agent™ tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24x7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

**Security:** The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits via either the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide you a single point of exit from your site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into your system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by you and IBM. Your business applications or business data is never transmitted to IBM.

**More accurate reporting:** Because system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, you are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

**Customized support:** Using the IBM ID entered during activation, you can view system and support information in the My Systems and Premium Search sections of the Electronic Support website at

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

**My Systems** provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with your IBM ID. **Premium Search** combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, you are able to see search results that apply specifically to your systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

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## **Prices**

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### **Business Partner information**

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

Information on charges is available at

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

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

### **Passport Advantage**

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

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## **Corrections**

**(Corrected on February 21, 2019)**

Updated License Information number section