IBM Tivoli NetView for z/OS V6.2 expands and improves its set of tools for managing complex, multivendor, multiplatform networks and systems from a single point of control

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At a glance

IBM® Tivoli® NetView® for z/OS® V6.2:

- Delivers analysis and automation of IBM z/OS system, NetView, and job messages via a consolidated log (CANZLOG) for both real time and archived messages.
- Provides sophisticated IP management capabilities that are easier to use, with a new IP Management Menu providing simplified, panel-driven access to IP management functions, as well as additional filtering, viewing, and sorting capabilities to simplify navigation through packet trace data.
- Improves problem determination time by enabling you to run multiple concurrent IP Packet Traces on the same stack. Traces can also be saved in the CTRACE format for use with other analytic tools.
- Enables enhanced problem solving through expanded integration and central-site access to consolidated logs from multiple z/OS systems.
- Simplifies the installation of REXX function packages and command environments through the use of new statements in the stylesheet.

Overview

IBM Tivoli NetView for z/OS V6.2 provides enhanced management for your business-critical IT network infrastructure. Use Tivoli NetView for z/OS to manage your mainframe systems, your IP and SNA networks, and the key services these systems and networks support. It supports heterogeneous networks that include both TCP/IP and SNA, and supports changing network and system requirements that exist on IBM System z®. Through a single console, Tivoli NetView for z/OS provides the ability to manage your entire network.

Product features

System automation: Tivoli NetView for z/OS V6.2 features automation support that simplifies automation configuration, improves system availability, and decreases operational costs, by providing a single, consistent method through which handling of all network and system messages can be automated.

Consolidated and archived message log and enhanced browsing: Tivoli NetView for z/OS V6.2 expands the scope of the consolidated log (CANZLOG) beyond the local system to encompass a sysplex or any arbitrary group of systems. CANZLOG is now
able to log messages that are issued before NetView initialization is complete, and offers more flexible filtering criteria.

Enhanced IP management: Tivoli NetView for z/OS V6.2 offers support for multiple, concurrent packet traces per stack, the ability to save packet traces in CTRACE format, and significant ease-of-use enhancements.

Customization enhancements: Tivoli NetView for z/OS V6.2 greatly simplifies the addition of REXX function packages and command environments through the use of new statements in the NetView stylesheet.

Support for GDPS® Active/Active: Tivoli NetView for z/OS support for the GDPS Active/Active continuous availability solution is extended in V6.2 to cover the new Active/Query configuration, providing monitoring of workload status and other managed elements in this configuration for improved availability and automation. IBM Tivoli NetView Monitoring for GDPS provides authorization for use of this NetView support for the Active/Standby and Active/Query configurations. Refer to Software Announcement ZP13-0650, dated October 22, 2013.

Integration of System z analytics with existing Service Management tooling: Tivoli NetView for z/OS now provides visibility, event management, and problem determination capabilities when System z anomalies are detected.

Key prerequisites

- Any IBM system configuration with sufficient storage that supports IBM z/OS V1.12, or later
- For NetView Management Console and Topology server: Selected hardware that supports selected editions of AIX®, Red Hat Enterprise Linux®, SUSE Linux®, or Microsoft® Windows®
- For NetView HTTP Server and Web Application Server: IBM WebSphere® Application Server V7.0.0.15

Planned availability date

October 25, 2013

Description

**IBM Tivoli NetView for z/OS V6 capabilities**

System automation

Tivoli NetView for z/OS V6 captures MVS™ messages for collection automation and for browsing without having to make difficult configuration choices. A shared data space is established to capture all IBM z/OS, NetView, and job messages into a consolidated log for automation. In addition, all message attributes are exposed and available for automation. You can create your own attributes that can be passed on for further automation or for viewing by operators.

Consolidated and archived message log and enhanced browsing

Tivoli NetView for z/OS provides consolidated access to NetView, system, and job messages:

- Expands the scope of the consolidated log (CANZLOG) beyond the local system to encompass any arbitrary group of systems, including a sysplex. This allows, for example, for browsing of CANZLOG records in any system of a sysplex from a central site, thus simplifying the debugging process and resulting in improved analysis and faster problem resolution. Robust filtering is easily applied to retrieve desired log records based on a large selection of factors, including time
range, jobname, job ID, message ID, address space type, domain, authorization identities and groups, automation token, attributes set by the user, and others, either singly or in combinations.

- Begins logging messages earlier and captures messages that are issued before NetView initialization is complete.
- Provides more flexible filtering criteria to specify not only a time range to be covered by retrieved messages, but also a time duration before or after a designated time.

Enhanced IP management

Tivoli NetView's long history of providing management for the mainframe environment (including the operating system and its communications server) continues with several important V6.2 enhancements to better manage IP networks:

- Multiple packet trace support per stack: Tivoli NetView for z/OS V6.2 extends capabilities for collecting, controlling, and viewing packet traces by allowing for multiple concurrent traces in the same z/OS Communications Server image (stack). This means that multiple traces, each using different trace criteria, can execute simultaneously on a given stack, and can be controlled and viewed from NetView.
- Packet trace CTRACE formatting: Using Tivoli NetView for z/OS facilities, a user can save packet traces for later recall. Tivoli NetView for z/OS V6.2 allows packet traces to be saved in CTRACE format, for convenient access from other tools such as z/OS Communications Server's IPCS-based formatter.
- Packet trace navigation: Additional filtering, viewing, and sorting capabilities simplify navigation through packet trace data.
- Ease of access: A new option, IP Management Menu, is added to the Tivoli NetView for z/OS main menu, providing simplified, panel-driven access to IP management functions.
- IP management quick start documentation: This helps to quickly begin using and realizing value from Tivoli NetView's IP management functions.

Support for GDPS Active/Active continuous availability solution

Tivoli NetView for z/OS plays a key role in the GDPS Active/Active continuous availability solution. This solution significantly increases system and workload resiliency while also reducing the time to recovery in disaster situations. Tivoli NetView for z/OS V6.2 extends support to the new Active/Query configuration, provides monitoring of workload status and other managed elements in this configuration for improved availability and automation. IBM Tivoli NetView Monitoring for GDPS provides authorization for use of this NetView support for the Active/Standby and Active/Query configurations. Refer to Software Announcement ZP13-0650, dated October 22, 2013.

Additional V6.2 enhancements: Support of System z Analytics (IBM zAware)

- Integration of System z analytics with existing Service Management tooling provides visibility, event management, and problem determination capabilities when System z anomalies are detected. Tivoli NetView utilizes the IBM zAware API to monitor the anomaly scores and generate events when an anomaly is detected. You can then browse the consolidated log using CANZLOG to perform problem determination in the context of the messages (and timeframe) that drove the high anomaly score.

Installation enhancements

- Limit the need for IPL: The previous release of Tivoli NetView for z/OS required an IPL of z/OS as part of the installation process in order to pick up NetView definitions in SYS1.PARMLIB and elsewhere (in association with the CANZLOG function.) For some users, however, the need to install and use Tivoli NetView conflicts with their IPL schedule. Tivoli NetView for z/OS V6.2 removes the requirement of a system IPL in order to use the CANZLOG (although it is still recommended).
• **NetView Management Console (NMC):** The NMC client sign-on panel now has a drop-down menu that remembers all the servers to which a client has connected in the past, allowing the user to select the desired server from that list.

• **REXX function packages and command environments:** Tivoli NetView for z/OS V6.2 greatly simplifies the installation of REXX function packages and command environments through the use of new statements in the NetView stylesheet, eliminating the former requirement for Assembler coding and link editing to incorporate such additions.

**Problem determination enhancements**

Tivoli NetView for z/OS V6.2 simplifies the collection of diagnostic information often needed by IBM Service, through a new command that collects all of the data resulting from a number of existing diagnostic commands such as TASKUTIL, LISTVAR, and RESOURCE. Additionally, NetView automatically dumps the most recent activity from the active CANZLOG data space when an ABEND dump is taken.

**Cryptographic enhancements**

Tivoli NetView for z/OS V6.2 updates its product components to stronger levels of cryptographic support (algorithms and key length) in order to comply with the National Institute of Standards and Technology (NIST) Special Publication (SP) 800-131A guideline. Tivoli NetView for z/OS V6.2 supports this transition to SP 800-131A in order to better secure sensitive customer data.

**Other benefits of Tivoli NetView for z/OS V6:**

• **IP Subnet and z/OS:** The MultiSystem Manager component of NetView remains tightly integrated with IBM Tivoli OMNibus and IBM Tivoli NetWork Manager, which can provide improved visibility to your distributed environment from z/OS.

• **Enterprise integration:** The Discovery Library Adapter (DLA) function utilizes z/OS data in the Resource Object Data Manager (RODM) data cache. The DLA can gather sysplex, z/OS system, and distributed resource information stored in RODM and collected by NetView's discovery manager function or MultiSystem Manager agent for IBM Tivoli Network Manager.

• **Support for zEnterprise®:** The discovery manager of NetView provides information on the zEnterprise platform. This includes OSA Channel types specific to the zEnterprise platform.

• **Dynamic Virtual IP Address (DVIPA) support for hot standby:** DVIPA monitoring includes support for the IBM Communications Server hot-standby distribution method for DVIPA. This provides enhanced system availability across your network.

**Accessibility by people with disabilities**

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


**Product positioning**

IBM Tivoli NetView for z/OS V6.2 provides a comprehensive set of tools for maintaining complex, multivendor, multiplatform networks, and systems from a single point of control.

Tivoli NetView supports and participates in Integrated Service Management, and demonstrates the importance of network and systems management in providing visibility, control, and automation across both business and IT. By fully participating and working with both the Configuration and Change Management Database (CCMDB) and IBM Tivoli Application Dependency Discovery Manager product sets, Tivoli NetView for z/OS can preserve your investments in NetView and exploit its
new functionality to better manage not just your IT resources but also the technical and business processes that govern how an enterprise functions.

Tivoli NetView for z/OS provides management functions that work in cooperation with other products or can function alone. As a stand-alone management application, Tivoli NetView manages both TCP/IP resources and SNA resources, and provides facilities to automate the handling of any network or system event.

Tivoli NetView for z/OS is a core integration point for IBM Integrated System Management. Examples of products that work with Tivoli NetView for z/OS V6.2 include:

- IBM Tivoli System Automation for z/OS (5698-SA3)
- IBM Tivoli OMNIbus and Network Manager(5724-W11)
- IBM Tivoli OMEGAMON® suite of products
- IBM Tivoli Workload Scheduler(5698-A17)
- IBM Tivoli Service Request Manager(5724-S85),
- IBM Tivoli Business Service Manager(5725-C55)
- IBM Tivoli Configuration and Change Management Database(5724-M19)
- IBM Tivoli Application Dependency Discovery Manager(5724-N55)

**Statement of direction**

**Notice of planned withdrawal**

IBM Tivoli NetView for z/OS V6.2 is the last release that will support the following functions:

- MVS Command Management. This function is superseded by the Command Revision Table function, introduced in Tivoli NetView for z/OS V5.4 in 2009.
- Visual BLDVIEWS. This function is superseded by the RODM Collection Manager function in the NetView Management Console, introduced in 2001 in IBM Tivoli NetView for OS/390® V1.4, to create dynamically managed views and aggregates.
- Common Event Infrastructure (CEI)/Common Base Events (CBE). There are several alternatives to this function, including the use of Event Integration Facility (EIF) events, SNMP traps, and system messages.
- 4700 Support Facility. This function has no replacement. The hardware it supported is no longer manufactured, and has been out of support since 2002.

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**Hardware and software support services**

**SmoothStart/installation services**

IBM SmoothStart Services and Installation Services are not provided.
Reference information


Program number

<table>
<thead>
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<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
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<tbody>
<tr>
<td>5697-NV6</td>
<td>6.2</td>
<td>IBM Tivoli NetView for z/OS</td>
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</table>

Technical information

Specified operating environment

**Hardware requirements**

IBM Tivoli NetView for z/OS V6.2 runs in a virtual storage environment on any IBM system configuration with sufficient storage that supports IBM z/OS V1.12, or later.

NetView for z/OS Enterprise Management Agent

Any hardware that supports one of the following operating systems:

- IBM z/OS V1.12, or later

NetView Management Console

Topology server

Any hardware that supports one of the following operating systems:

- IBM AIX V6.1 (IBM Power Systems™), or later
- Red Hat Enterprise Linux 5.0 (IBM System z)
- Red Hat Enterprise Linux 6.0 (System z)
- SUSE Linux Enterprise Server 10 (System z)
- SUSE Linux Enterprise Server 11 (System z)
- Microsoft Windows Server 2008 R2 Datacenter
- Microsoft Windows Server 2008 R2 Enterprise
- Microsoft Windows Server 2008 R2 Standard
- Microsoft Windows Server 2012 Datacenter
- Microsoft Windows Server 2012 Standard
- Microsoft Windows Server 2012 Essentials
- Microsoft Windows Server 2012 Foundation
  
  Install footprint: 100 MB of additional fixed disk space

Topology console

Any hardware that supports one of the following operating systems with TCP/IP installed:

- Red Hat Enterprise Linux Desktop 5.0 (x86-32, x86-64)
- Red Hat Enterprise Linux Desktop 6.0 (x86-32, x86-64)
- Red Hat Enterprise Linux Server 5.0 (x86-64)
- Red Hat Enterprise Linux Server 6.0 (x86-64)
- SUSE Linux Enterprise Desktop 10 (x86-32, x86-64)
- SUSE Linux Enterprise Desktop 11 (x86-32, x86-64)
- SUSE Linux Enterprise Server 10 (x86-64)
- SUSE Linux Enterprise Server 11 (x86-64)
- Microsoft Windows Server 2008 R2 Datacenter
- Microsoft Windows Server 2008 R2 Enterprise
- Microsoft Windows Server 2008 R2 Standard
- Microsoft Windows Server 2012 Datacenter
- Microsoft Windows Server 2012 Standard
- Microsoft Windows Server 2012 Essentials
- Microsoft Windows Server 2012 Foundations
- Microsoft Windows 7 Professional
- Microsoft Windows 8 Professional
- Microsoft Windows 8 Enterprise
- Installation footprint: 300 MB of additional fixed disk space.
- Color display (1024 x 768, 256 colors).
- Maximum color palette is 16-bit high color; 256-color palette recommended. (32-bit true color is not supported.)

Tivoli NetView for z/OS web application (HTTP Server and web application server)

Any hardware that supports one of the following operating systems running on IBM WebSphere Application Server V8 or the embedded version of IBM WebSphere Application Server V8:

- IBM AIX V6.1, TL4 (IBM Power Systems) or later
- IBM AIX V7.1 TL2 SP1 (Power Systems) or later
- Red Hat Enterprise Linux 5.0 (x86-32, x86-64)
- Red Hat Enterprise Linux 5.0 (System z)
- Red Hat Enterprise Linux 6.0 (x86-32, x86-64)
- Red Hat Enterprise Linux 6.0 (System z)
- SUSE Linux Enterprise Server 10 (x86-32, x86-64)
- SUSE Linux Enterprise Server 11 (x86-32, x86-64)
- SUSE Linux Enterprise Server 10 (System z)
- SUSE Linux Enterprise Server 11 (System z)
- Microsoft Windows Server 2008 R2 Datacenter
- Microsoft Windows Server 2008 R2 Enterprise
- Microsoft Windows Server 2008 R2 Standard
- Microsoft Windows Server 2012 Datacenter
- Microsoft Windows Server 2012 Enterprise
- Microsoft Windows Server 2012 Essentials
- Microsoft Windows Server 2012 Foundation

The install footprint is 880 MB of fixed disk space for Microsoft Windows and 950 MB for all other platforms.

For additional hardware requirements for IBM WebSphere Application Server V8, refer to the WebSphere documentation for the applicable platform.

Tivoli NetView for z/OS MultiSystem Manager component
The IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager runs in many different environments. The hardware required is any hardware that supports one of the environments listed below. The topology agent for IBM Tivoli Network Manager is shipped with Tivoli NetView for z/OS on the workstation DVD.

AIX

When the IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager is installed on AIX, the agent requires hardware that supports the following:

- AIX V6.1 (Power Systems), or later
- IBM Tivoli OMNIbus and Network Manager 8.3.0, or later

Linux

When the IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager is installed on Linux, the agent requires hardware that supports the following:

- Red Hat Enterprise Linux 5.0 (x86-32, x86-64)
- Red Hat Enterprise Linux 5.0 (System z)
- Red Hat Enterprise Linux 6.0 (x86-32, x86-64)
- Red Hat Enterprise Linux 6.0 (System z)
- SUSE Linux Enterprise Server 10 (x86-32, x86-64)
- SUSE Linux Enterprise Server 10 (System z)
- SUSE Linux Enterprise Server 11 (x86-32, x86-64)
- SUSE Linux Enterprise Server 11 (System z)
- IBM Tivoli OMNIbus and Network Manager V8.3.0

Microsoft Windows

When the IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager is installed on Windows, the agent requires hardware that supports the following:

- Microsoft Windows Server 2008 Datacenter
- Microsoft Windows Server 2008 Enterprise
- Microsoft Windows Server 2008 Standard
- Microsoft Windows Server 2008 R2 Datacenter
- Microsoft Windows Server 2008 R2 Enterprise
- Microsoft Windows Server 2008 R2 Standard
- IBM Tivoli OMNIbus and Network Manager V8.3.0

Software requirements

This section defines the minimum programming requirements for IBM Tivoli NetView for z/OS V6.2 and its operating environments. Specific functions of Tivoli NetView for z/OS may require additional products or higher levels of the products listed below.

IBM Tivoli NetView for z/OS is executed as an application on the z/OS operating system. Tivoli NetView for z/OS support is provided at the listed levels or subsequent levels that are upward compatible, unless otherwise stated. Upward compatibility means that functions provided by the earlier releases are still supported.

Programming requirements for all functions:

- IBM z/OS V1.12, or later
- All functions related to the ACF/NCP program require:
  - IBM ACF/NCP V4.3.1 (5668-854), or later
• All functions using TCP/IP communications from z/OS require z/OS V1.12, or later.

NetView-to-NetView communication: In a multiple-domain network or across multiple SNA networks, the Tivoli NetView program can communicate with another Tivoli NetView program, regardless of the operating system. IBM Tivoli NetView for z/OS V6.2 can communicate with the following, at the listed system's level of capabilities:

- IBM Tivoli NetView for OS/390 V1.4
- IBM Tivoli NetView for z/OS V5.3
- IBM Tivoli NetView for z/OS V5.4
- IBM Tivoli NetView for z/OS V6.1

Function compatibility

Except as noted below under withdrawn functions, the functions of the following versions and releases are upwardly compatible with IBM Tivoli NetView for z/OS V6.2:

- IBM Tivoli NetView for OS/390 V1.4
- IBM Tivoli NetView for z/OS V5.3
- IBM Tivoli NetView for z/OS V5.4
- IBM Tivoli NetView for z/OS V6.1

System definition compatibility

In order to facilitate migration from a previous release, IBM Tivoli NetView for z/OS host code will run with the NetView Management Console (NMC) Topology Server and Console from the following earlier releases:

- IBM Tivoli NetView for OS/390 V1.4
- IBM Tivoli NetView for z/OS V5.3
- IBM Tivoli NetView for z/OS V5.4
- IBM Tivoli NetView for z/OS V6.1

Note: Refer to the IBM Tivoli NetView for z/OS V6.2 Installation: Migration Guide for details.

For equivalent, non-system-dependent functions, Tivoli NetView for z/OS will operate with the REXX procedures of Tivoli NetView for OS/390 V1.4.

User applications, written for these NetView releases in accordance with NetView customization publications and using NetView customization services, will be source compatible. A reassembly or recompile using Tivoli NetView for z/OS macro libraries is required.

If user customization code is being migrated from one operating system release to another, user code that contains system-dependent functions may not run and may require conversion.

Enhanced function support: The following Tivoli NetView for z/OS functions and features require the specified program levels or subsequent upward-compatible levels unless stated otherwise.

- TCP/IP connection management: z/OS V1.12, or later
- IP packet trace formatting: z/OS V1.12, or later
- Multiple concurrent packet traces: z/OS V2.1, or later
- Tivoli NetView for z/OS Enterprise Management Agent
  -- IBM Tivoli Monitoring V6.3.0 Fix Pack 1, or later, which bundles IBM DB2 Universal Database™ (UDB) Workgroup Server Edition V10.1. For information
about software requirements for IBM Tivoli Monitoring V6.3.0, refer to the IBM Tivoli Monitoring: Installation and Setup Guide, SC22-5445.

- Optionally: IBM Tivoli OMEGAMON XE for Mainframe Networks V5.1.1, IBM Tivoli OMEGAMON XE for CICS® on z/OS V5.1.0, IBM Tivoli OMEGAMON XE on z/OS V5.1.1, and OMEGAMON XE for DB2® Performance Expert on z/OS V5.1.1.

- Application-Transparent Transport Layer Security (AT-TLS): z/OS V1.12 (Communications Server), or later
- Mixed-case passwords: z/OS V1.12 Security Server ( RACF® ), or later

Support for common event infrastructure

IBM WebSphere Application Server V8 for the appropriate operating system is required.

For additional information about software requirements for IBM WebSphere Application Server V8, refer to the WebSphere documentation for the applicable platform.

NetView Management Console

Topology server

One of the following:

- AIX V6.1 (Power Systems), or later, with one of the following:
  -- XL C/C++ Runtime for AIX applications: xlC.rte 8.0.0.0 or later
  -- XL C/C++ Runtime for AIX V5.3, V6.1, V7.1 applications: xlC.aix50.rte 8.0.0.0 or later

  Note: xlC.rte and xlC.aix50.rte are included on the Tivoli NetView for z/OS V6.2 product DVD.

- Red Hat Enterprise Linux 5.0 (System z)
- Red Hat Enterprise Linux 6.0 (System z)
- SUSE Linux Enterprise Server 10 (System z)
- SUSE Linux Enterprise Server 11 (System z)
- Microsoft Windows Server 2008 R2 Datacenter
- Microsoft Windows Server 2008 R2 Enterprise
- Microsoft Windows Server 2008 R2 Standard
- Microsoft Windows Server 2012 Datacenter
- Microsoft Windows Server 2012 Standard
- Microsoft Windows Server 2012 Essentials
- Microsoft Windows Server 2012 Foundation

Topology console

One of the following:

- Red Hat Enterprise Linux Desktop 5.0 (x86-32, x86-64)
- Red Hat Enterprise Linux Desktop 6.0 (x86-32, x86-64)
- Red Hat Enterprise Linux Server 5.0 (x86-64)
- Red Hat Enterprise Linux Server 6.0 (x86-64)
- SUSE Linux Enterprise Desktop 10 (x86-32, x86-64)
- SUSE Linux Enterprise Desktop 11 (x86-32, x86-64)
- SUSE Linux Enterprise Server 10 (x86-64)
- SUSE Linux Enterprise Server 11 (x86-64)
- Microsoft Windows Server 2008 R2 Datacenter
• Microsoft Windows Server 2008 R2 Enterprise
• Microsoft Windows Server 2008 R2 Standard
• Microsoft Windows Server 2012 Datacenter
• Microsoft Windows Server 2012 Standard
• Microsoft Windows Server 2012 Essentials
• Microsoft Windows Server 2012 Foundations
• Microsoft Windows 7 Professional
• Microsoft Windows 8 Professional
• Microsoft Windows 8 Enterprise

Server communications with Tivoli NetView for z/OS using LU 6.2

For LU 6.2 connections, one of the following is required:

• IBM Communications Server for AIX V6.1 (5765-E51)
• IBM Communications Server for Windows V6.1 (5639-F25), or later

NMC Server Audit Log: To use a web browser to view the audit log requires a browser which supports eXtensible Stylesheet Language (XSL). Common browsers which support XSL include:

• Mozilla Firefox 17 (ESR), or later
• Microsoft Internet Explorer 8, or later

Tivoli NetView web application

HTTP Server and Web Application Server

One of the following operating systems with TCP/IP installed:

• AIX V6.1 (Power Systems), or later
• Red Hat Enterprise Linux 5.0 (x86-32, x86-64)
• Red Hat Enterprise Linux 6.0 (x86-32, x86-64)
• Red Hat Enterprise Linux 5.0 (System z)
• Red Hat Enterprise Linux 6.0 (System z)
• SUSE Linux Enterprise Server 10 (x86-32, x86-64)
• SUSE Linux Enterprise Server 11 (x86-32, x86-64)
• SUSE Linux Enterprise Server 10 (System z)
• SUSE Linux Enterprise Server 11 (System z)
• Microsoft Windows Server 2008 R2 Datacenter
• Microsoft Windows Server 2008 R2 Enterprise
• Microsoft Windows Server 2008 R2 Standard
• Microsoft Windows Server 2012 Datacenter
• Microsoft Windows Server 2012 Enterprise
• Microsoft Windows Server 2012 Essentials
• Microsoft Windows Server 2012 Foundation
• IBM WebSphere Application Server V8 or the embedded version of IBM WebSphere Application Server V8 for the appropriate operating system For additional software requirements for IBM WebSphere Application Server V8, refer to the WebSphere documentation for the applicable platform.

Web browsers

The supported web browser versions for the Tivoli NetView web application are:

• Microsoft Windows:
- Internet Explorer 8, 9, 10, or later with Java™ plug-in V6.0 or V7.0
- Mozilla Firefox 17 (ESR), or later with Java plug-in V6.0 or V7.0
- Google Chrome 24, or later with Java plug-in V6.0 or V7.0
- SUSE Linux : Mozilla Firefox 17 (ESR), or later with Java plug-in V6.0 or V7.0
- Red Hat Linux : Mozilla Firefox 17 (ESR), or later with Java plug-in V6.0 or V7.0

Event/Automation Service to and from the Tivoli Enterprise Console®

- Tivoli OMNIbus V7.3 (5725-C55)

Issuing z/OS UNIX™ Services Commands from NetView

- REXX alternate run-time (same as for IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager)

Management of Frame Relay (DTE) and Ethernet

- ACF/NCP V6 (5688-231)

NetView Parallel Transmission Group Support

- ACF/NCP V5.4 MVS (5668-738)

NetView Network Asset Management

This provides NCP vital product data (VPD) and hardware device vital product information for those devices that support the Request Product Set ID (PSID) architecture:

- ACF/NCP V4.3.1 (5668-854) for the 3725
- ACF/NCP V5.4 MVS (5668-738), or later for the 3720 or 3745

NetView Performance Monitor (NPM)

- IBM Tivoli NetView Performance Monitor V2.7 (5654-011), or later for session alerts

System Authorization Facility (SAF) security checking

z/OS Security Server (5694-A01) or an equivalent SAF product is required for SAF security checking of each of the following functions:

- Resource Object Data Manager connections
- NetView operator passwords
- RMTCMD through the RMTOPS Class
- NetView command authorization
- NetView span of control access
- NetView operator logon information
- Graphical view security
- List RACF profile for NetView operators

Topology feature for IBM Tivoli Network Manager: IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager runs in many different environments. The requirements for each environment are included below.

AIX

When the IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager is installed on AIX, the agent requires hardware that supports the following:
• AIX V6.1, or later
• IBM Tivoli OMNIbus and Network Manager V8.3.0

Linux

When the IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager is installed on Linux, the agent requires hardware that supports the following:

• Red Hat Enterprise Linux 5.0 (x86-32, x86-64)
• Red Hat Enterprise Linux 5.0 (System z)
• Red Hat Enterprise Linux 6.0 (x86-32, x86-64)
• Red Hat Enterprise Linux 6.0 (System z)
• SUSE Linux Enterprise Server 10 (x86-32, x86-64)
• SUSE Linux Enterprise Server 10 (System z)
• SUSE Linux Enterprise Server 11 (x86-32, x86-64)
• SUSE Linux Enterprise Server 11 (System z)
• IBM Tivoli Network Manager IP Edition V3.9 FP2, or later

Microsoft Windows

When the IBM NetView MultiSystem Manager agent for IBM Tivoli Network Manager is installed on Windows, the agent requires hardware that supports the following:

• Microsoft Windows Server 2008 Datacenter
• Microsoft Windows Server 2008 Enterprise
• Microsoft Windows Server 2008 Standard
• Microsoft Windows Server 2008 R2 Datacenter
• Microsoft Windows Server 2008 R2 Enterprise
• Microsoft Windows Server 2008 R2 Standard
• IBM Tivoli OMNIbus and Network Manager V8.3.0

Web Services Gateway

• XML Toolkit for z/OS V1.10, or later
• z/OS V1.12 Cryptographic Services System SSL, or later

**User group requirements**

These requests are implemented or partially implemented in Tivoli NetView for z/OS V6.2:

11625  Netview SETSSI ACTIVATE request
13103  Add HDRMTYPE and domain to CANZLOG
13979  Eliminate IPL requirement for Netview for z/OS upgrade
14615  Remove the IPL requirement for NetView V6
14619  CANZLOG Sysplex wide capability
15878  Export PKTS trace data for IPCS processing
17861  NetView improvements required for IPL time to handle messages prior to NetView startup
24411  Turning on new features in NetView for z/OS is too complex. Improve documentation and samples to simplify
26647  Add pipe stage to suppress command response from syslog
28122  in CANZLOG have an example on the page on how you put in date and time
28186  For Panel FKXK2A22 Add the ability to utilize Static VIPAs
29237  NetView V6.1 - Performance improvement of message processing
Security, auditability, and control

IBM Tivoli NetView for z/OS V6.2 uses the security and auditability features of the host hardware or 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.

Ordering information

Ordering z/OS through the Internet

ShopzSeries provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). ShopzSeries is available in the US, Canada, and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Website at http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

New licensees

Orders for new licenses can be placed now.

Registered customers can access IBMLink for ordering information and charges.

Shipment will begin on the planned availability date.

- Orders that ship before the planned availability will receive Tivoli NetView for z/OS V6.1.
- Orders that ship after the planned availability date will receive Tivoli NetView for z/OS V6.2

New users of Tivoli NetView for z/OS should specify:

Type: 5697      Model: NV6

Parallel Sysplex® license charge (PSLC) basic license

To order a basic license, specify the program number and quantity of MSU.

If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable PSLC license options and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the System Usage Registration No-Charge (SYSUSGREG NC) Identifier on the licenses.

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
<th>Description</th>
<th>License option/ Pricing metric</th>
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</thead>
<tbody>
<tr>
<td>S016RPV</td>
<td>IBM Tivoli NetView for z/OS V6.2</td>
<td>Basic MLC, PSLC below 3 MSU Basic MLC, PSLC AD SYSUSGREG NC, PSLC AD</td>
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<tr>
<td>S016RPM</td>
<td>Tivoli Enterprise Monitoring Agent V6.2</td>
<td>Basic MLC, PSLC below 3 MSU Basic MLC, PSLC AD</td>
</tr>
<tr>
<td>S016RPT</td>
<td>License Certificate</td>
<td></td>
</tr>
</tbody>
</table>
Workload License Charge (WLC) basic license

If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable WLC license options and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the Workload Registration Variable WLC Identifier on the licenses.

<table>
<thead>
<tr>
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<th>Description</th>
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<tr>
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<td>Tivoli Enterprise Monitoring Agent V6.2</td>
<td>Basic MLC, Variable WLC Workload Registration,</td>
</tr>
<tr>
<td>S016RPT</td>
<td>License Certificate</td>
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</table>

Entry Workload License Charge (EWLC) basic license

To order a basic license, specify the program number and the quantity of MSUs.

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
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<tbody>
<tr>
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<td>Basic MLC, Entry WLC License Certificate</td>
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<td>S016RPM</td>
<td>Tivoli Enterprise Monitoring Agent V6.2</td>
<td>Basic MLC, Entry WLC</td>
</tr>
<tr>
<td>S016RPT</td>
<td>License Certificate</td>
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</table>

Growth opportunity license charge (GOLC)

To order a basic license, specify the program number and the correct level.

Specify the GOLC monthly license option.

<table>
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<tr>
<th>Entitlement identifier</th>
<th>Description</th>
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<tbody>
<tr>
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<td>S016RPM</td>
<td>Tivoli Enterprise Monitoring Agent V6.2</td>
<td>Basic MLC, GOLC</td>
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<tr>
<td>S016RPT</td>
<td>License Certificate</td>
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</table>

System z entry license charge (zELC)

To order zELC software, specify the program number and z800 model.

Specify the zELC monthly license option.

<table>
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<tr>
<th>Entitlement identifier</th>
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<td>Basic MLC, zELC License Certificate</td>
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<td>Tivoli Enterprise Monitoring Agent V6.2</td>
<td>Basic MLC, zELC</td>
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<tr>
<td>S016RPT</td>
<td>License Certificate</td>
<td></td>
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</table>
**Advanced Workload License Charge (AWLC) basic license**

<table>
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<tr>
<th>Entitlement identifier</th>
<th>Description</th>
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<tbody>
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<td>IBM Tivoli NetView for z/OS V6.2</td>
<td>Basic MLC, Advanced WLC Workload Registration License Certificate</td>
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<td>Basic MLC, Advanced WLC Workload Registration License Certificate</td>
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<tr>
<td>S016RPT</td>
<td>License Certificate</td>
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For more information about the AWLCCharge, refer to Software Announcement ZP10-0307, dated July 22, 2010.

**Basic machine-readable material**

<table>
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<tr>
<th>Orderable Supply ID: Language</th>
<th>Distribution medium</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>S016RPP  US English</td>
<td>3590/3592 Tape Cartridge</td>
<td>Tivoli NetView for z/OS - English</td>
</tr>
<tr>
<td>S016RPW  US English</td>
<td>3590/3592 Tape Cartridge</td>
<td>Tivoli Enterprise Monitoring Agent</td>
</tr>
</tbody>
</table>

**Publications**

**Licensed documentation**

Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.

**Customized offerings**

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac.

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the ShopzSeries help information at [http://www.software.ibm.com/ShopzSeries](http://www.software.ibm.com/ShopzSeries)

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options for CBPDO, ServerPac, SystemPac include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.
Global Technology Services®

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, and integration of this product.

Terms and conditions

The terms for IBM Tivoli NetView for z/OS V5.3, as previously announced in Software Announcement ZP07-0310, dated July 24, 2007, and V6 as previously announced in Software Announcement ZP11-0231, dated May 24, 2011, licensed under the IBM Customer Agreement, are unaffected by this announcement.

IBM Electronic Services

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 V5.3, AIX 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

**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 24 x 7 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 either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of
exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

**More accurate reporting:** Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers 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, customers 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 the customer's 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, customers are able to see search results that apply specifically to their 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

### Prices

Prices for Tivoli NetView for z/OS V6.2 remain the same and are unaffected by this announcement.

For additional information, refer to Software Announcement ZP11-0231, dated May 24, 2011.

For all local charges, contact your IBM representative.

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Announcement ZP13-0567
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