IBM Tivoli NetView for z/OS V5.3 adds productivity enhancements

At a glance

New in IBM Tivoli NetView for z/OS V5.3:

- Expanded Tivoli Enterprise Portal (TEP) support:
  - New and expanded data and workspaces, including self-management (NetView health), additional IP connection, Dynamic Virtual IP Addressing (DVIPA) and sysplex information, out-of-the-box situations, and expert advice.

- Cross-product linkage:
  - Expanded workspace linkage to the OMEGAMON XE product suite for greater correlation of availability and performance management.
  - NetView’s Discovery Library Adapter (DLA) makes NetView IP Management data available to other management products through IBM’s Change and Configuration Management Database (CCMDB).

- IP management
  - Displays IPv6 data and operates in an IPv6 environment using IPv6 sockets
  - Has expanded information on active IP connections
  - Monitors ports to verify that they are accepting connections
  - Provides additional sysplex management information

- Time to value
  - Updated CNMSTYLE Report Generator

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Overview

IBM Tivoli® NetView® for z/OS® V5.3 provides state-of-the-art management for your business critical IT network infrastructure. Use NetView to manage your mainframe systems, your networks, and the key services these systems and networks support. This release expands NetView capabilities to continue to match the evolution customers are encountering in their System z™ environments and to strengthen ties to the Tivoli portfolio to allow you to better manage your IT environments.

Expanded Tivoli Enterprise™ Portal (TEP) integration
NetView for z/OS v5.3 continues the direction begun in V5.2 by strengthening its presence in the TEP through:

- Connectivity improvements using a System z-based Enterprise Management Agent
- A wide array of new and expanded workspaces and views
- Situations and expert advice
- Information about the health of NetView itself
- Broader cross-product integration with the OMEGAMON® XE product suite

Enhanced IP management

NetView's long history of providing management for the mainframe environment (including the operating system, its communications server, and other functions) continues with several important enhancements to better manage IP networks and sysplex environments.

TCP/IP management continues to be a focus area with NetView. NetView has added numerous TCP/IP management enhancements over time. NetView V5.3 further strengthens these capabilities with enhancements for management of SNA over IP, several important additions to connection management, and expanded support for IPv6.

The Automated Operations Network (AON) component's packet trace control capabilities are enhanced to allow control of multiple active traces. Additionally, all possible component trace options can now be specified through AON.

Sysplex monitoring

Sysplex environments are increasingly important to our System z customers. NetView already discovers the z/OS images within a sysplex and the stacks on each of those images, and provides management capabilities for such environments. NetView also discovers a variety of Dynamic Virtual IP Addressing (DVIPA)-related information, including connections through a sysplex distributor, DVIPA connection status, and other information. Although related, the two types of information have been collected, stored, and displayed independently of each other. With NetView V5.3, you can now bring related information together, and more easily manage these environments.

Key prerequisites

Refer to the Hardware requirements and Software requirements sections.

Planned availability date

July 27, 2007

Description

Expanded Tivoli Enterprise Portal (TEP) integration

NetView for z/OS V5.2 took the first steps toward integration with the TEP by providing workspaces for the display of IP connection data, log browse, various DVIPA data, packet trace, selected NLDM session data and session configuration data, the ability to issue NetView line-mode commands, and cross-product linkage with OMEGAMON XE for Mainframe Networks. To provide broader enterprise management, NetView for z/OS V5.3 offers expanded interoperability with the OMEGAMON XE suite of products via the TEP, as well as situations and expert advice, and expanded workspaces. Examples of this expanded TEP support include:

- NetView health: NetView already provides several self-management functions, notably TASKMON and the NetView Resource Manager (NRM), which allow for monitoring and managing NetView's usage of system resources such as CPU, I/O rates, message queue lengths, and storage. Current and historical data from these is now available in two new workspaces. Situations are provided that trigger when the monitored performance metrics exceed customer-definable thresholds.
- New stack configuration and status workspace: You have the capability to see all stacks in your sysplex which NetView is monitoring. It also aids configuration management and problem determination.
Cross-product integration

- OMEGAMON XE product suite: NetView for z/OS V5.3 provides expanded workspace linkage to the OMEGAMON suite of products (including OMEGAMON XE for Mainframe Networks, OMEGAMON XE on z/OS, and OMEGAMON XE for CICS®), allowing for greater correlation of availability and performance data, thus providing for greater insight into problem impact and problem determination.

- Discovery Library Adapter (DLA): NetView’s DLA extracts TCP/IP resource information and relationships from the NetView for z/OS Resource Object Data Manager (RODM) data cache, formats the data into an output XML file, and sends the information to the IBM Configuration and Change Management Database (CCMDB).

- NetView for z/OS TCP/IP data in the CCMDB database enables consuming applications, such as Tivoli Application Dependency Discovery Manager (TADDM), to locate resources discovered by other providers, such as an FTP server or router, in a TCP/IP network. This resource correlation helps operators and network analysts to solve outages and improve configuration and change management.

- Of particular value is the correlation in CCMDB between TCP/IP z/OS resources discovered by NetView for z/OS, and z/OS resources discovered by the z/OS Discovery Library Adapter.

Enhanced IP management

Building on the TCP/IP and SNMP management capabilities in previous releases, NetView for z/OS V5.3 introduces or expands several capabilities:

IPv6 enablement

- Base NetView commands and services that accept and process IP addresses now fully support IPv6 addressing
- REXEC and RSH

Managing SNA Over IP Enterprise Extender (EE) support

- Identification of EE sessions: Building on the existing NLDM SESS command, this new function allows users to select SNA sessions that traverse a given resource. The resource no longer needs to be a session endpoint. This allows users to see what sessions traverse an ALS (CNRnnnnn), as requested by EE customers.
- Additional path information: Building on the function provided by the existing DIS command, this new function offers detailed information about paths to EE-connected session partners. For outboard resources (DLURs), for example, this may include information about the path to the owning CP, EEDIAG test results, and RTP pipe information from the remote host.
- Packet filtering by protocol: Expanding on the Real-time Packet Trace Formatting offered in NetView for z/OS V5.2, this function allows users to select traced packets by protocol. Protocols can be specified as a number (0 through 255) or one of three names (TCP, UDP or OSPF). Protocol can be specified in conjunction with other criteria (such as local and remote address or port) to provide more granular filtering of packets, and thus simplify the process of network debugging by excluding extraneous packets.
- Identify hung listeners: A hung listener is defined as a port that refuses connections but appears to be normal in a netstat command. Currently, users have no way of pro-actively monitoring for and managing hung listeners. System administrators only find out that a listener is hung when a user calls in complaining that an application is unavailable. NetView for z/OS V5.3 allows for monitoring critical ports, using timers for the customer-defined monitor interval. When a port is found to be hung, an automable message is issued, to allow recovery. If the port is not hung, the connection is ended.
- Handling of traps: Through its Event/Automation Service (E/AS) running under UNIX® System Services (USS) or an MVS™ started task, NetView has long provided the ability to receive or send traps. While it remains available through E/AS, that function is now also available in the NetView address space, thus removing the need for USS setup. This new SNMP trap automation is only for receiving traps. The function still provides for traps to be routed through NetView automation, and now supports SNMPv2c and SNMPv3. This function will receive traps within an IPv6 network as well as receiving traps over TCP.

Core NetView functions

Session Monitor PIU formatting: In prior releases, NetView’s Session Monitor displayed SNA
PIUs in hexadecimal and EBCDIC formats. NetView for z/OS V5.3 now interprets certain PIUs and displays the information in a readable format with annotations to explain each field.

Dynamic pipelines: Some commands, when run in a PIPE, do not give up control to the PIPE until the command completes. This means that no output from the command can be obtained until successful completion of the command. And, in fact, a command that terminates abnormally returns no data at all. Dynamic pipelines allow for the return of intermediate output from commands. The function is implemented as a new option (TRAP) for the PERSIST pipe stage. TRAP specifies that messages are to be added to the message queue of the REXX procedure that called the pipeline containing the PERSIST TRAP stage. Such messages satisfy a REXX WAIT FOR MESSAGES command and are accessible to a REXX MSGREAD command.

Command response suppression: Since responses to some system commands, especially TCP/IP-related commands, can be lengthy or repetitious, leading to unwanted command responses filling the Syslog, NetView now provides a means to enable or disable the system logging of correlated responses to MVS commands in NetView or in a NetView pipeline. This allows you to specify whether responses to MVS commands, issued from within NetView or from other message traffic naming a console owned by a NetView operator, are sent to the system log. System logging of all other messages is not affected.

Check for CLIST existence: NetView now verifies that a command/clist/REXX procedure exists before attempting to verify the user’s authorization to issue the command/clist/procedure. This provides a performance improvement and prevents possibly erroneous security violation messages and SMF records in such situations.

Re-establish RMTCMD connections over IP: NetView now allows RMTCMD connections using IP to be re-established if the IP connection between the source and target is disrupted. Previously, under some conditions, the target of the RMTCMD would reject attempts to re-establish such connections.

Ship AON CLISTS as source code: NetView now ships its AON component’s CLISTS as interpreted REXX code rather than compiled REXX code. This facilities debugging AON problems.

Additional platform support: NetView now supports the Multisystem Manager IP agent on Intel® Linux™ platforms.

Sysplex monitoring

Sysplex environments are increasingly important. NetView already discovers the z/OS images within a sysplex and the stacks on each of those images, and provides management capabilities for such environments. NetView also discovers a variety of DVIPA-related information, including connections through a sysplex distributor and DVIPA connection status. Although related, the two types of information have been collected, stored, and displayed independently of each other. With NetView for z/OS V5.3 you can now bring related information together, and more easily manage these environments.

Time to value/ease of use

Updated Report Generator for CNMSTYLE: This tool provides a report that shows the layout of the NetView stylesheet (CNMSTYLE) and its included members. It allows you to quickly and easily see which towers and subtowers have been activated, and which parameter values are actually in effect. This helps to reduce the time to value and to prevent unwanted recycles of NetView due to parameter values that are syntactically correct and semantically valid, but not the desired values.

Product positioning

Tivoli NetView for z/OS V5.3 provides a comprehensive set of tools for maintaining complex, multivendor, multiplatform networks, and systems from a single point of control.

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

Examples of products that work with NetView for z/OS include System Automation for z/OS (5698-A14) and Tivoli NetView (5698-NVW). NetView for z/OS provides the automation services and graphical topology services for System Automation for z/OS, whose strength is OS/390® and z/OS system automation.

Tivoli NetView for z/OS can receive TCP/IP resource topology data from Tivoli NetView, running
on a UNIX, Windows™, or Linux on System z, to show an enterprise-wide view of the network, track resources status, and issue commands to those resources.

NetView for z/OS is a program for managing networks and systems through graphical display and automation. It reduces manual resource definition and complex automation setup through production-ready automation and extends centralized management into multiple SNA network environments. NetView for z/OS can be used in an enterprise as a centralized manager, a mid-level manager, or a z/OS management endpoint.

### Hardware and software support services

**SmoothStart™/installation services**

IBM SmoothStart Services, an on-site implementation and training startup service, are designed to accelerate your productive use of your IBM solution. The service is provided by IBM Global Services or your IBM Business Partner at an additional cost. For additional information, refer to Services Announcement 697-004, dated March 25, 1997, or contact your IBM representative and ask for SmoothStart Services for IBM Tivoli NetView for z/OS.

IBM Installation Services are provided for IBM Tivoli NetView for z/OS by IBM Global Services or your IBM Business Partner at an additional cost. For additional information, contact your IBM representative and ask for Installation Services for IBM Tivoli NetView for z/OS.

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BP Attachment for Announcement Letter 207-163


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### Technical information

**Specified operating environment**

**Hardware requirements:** IBM Tivoli® NetView® for z/OS® V5.3 runs in a virtual storage environment, on any IBM system configuration, with sufficient storage, that supports z/OS.

NetView for z/OS Tivoli Enterprise™ Portal Agent

Any hardware that supports one of the following operating systems:

- Windows™ Server 2003 Standard with SP1
- Windows Server 2003 Enterprise with SP1
- Windows XP Professional with SP2
- SUSE Linux™ Enterprise Server 9 (Intel®)
- SUSE Linux Enterprise Server 10 (Intel)
- SLES 9 for S/390® and zSeries® (32-bit app, 64-bit kernel)
- SLES 10 for zSeries (32-bit app, 64-bit kernel)
- Red Hat Enterprise Linux 4 AS (Intel)
- Red Hat Enterprise Linux 4 ES (Intel)
- Red Hat Enterprise Linux 4 WS (Intel)
- Red Hat 4.0 for S/390 and zSeries (32-bit app, 64-bit kernel)
- Solaris 9, or later
- AIX® V5.2, or later
- HP-UX 11iv2 with patch PHSS_30970, or later

NetView for z/OS Enterprise Management Agent
Any hardware that supports one of the following operating systems:

- z/OS V1.6, or later

NetView Management Console, NetView 3270 Management Console

Topology server
Any hardware that supports one of the following operating systems:
- AIX V5.2, or later
- Windows Server 2003 Standard with SP1
- Windows Server 2003 Enterprise with SP1
- Windows Server 2003 Data Center with SP1
- Windows XP Professional with SP2
- SUSE Linux Enterprise Server 9 for zSeries
- SUSE Linux Enterprise Server 10 for zSeries
- Red Hat Enterprise Linux 4.0 for zSeries
- Red Hat Enterprise Linux 5.0 for zSeries
- Processor speed for workstation hardware: Minimum 350 MHz
- Memory: Minimum 128 MB, 256 MB recommended
- Install footprint: 60 MB of additional fixed disk space

Topology console
Any hardware that supports one of the following operating systems with TCP/IP installed:
- Windows Server 2003 Standard with SP1
- Windows Server 2003 Enterprise with SP1
- Windows Server 2003 Data Center SP1
- Windows XP Professional with SP2
- Windows Vista Desktop
- SUSE Linux Enterprise Server 9 (Intel)
- SUSE Linux Enterprise Server 9 (AMD64/EM64T) (32-bit application, 64-bit kernel
- SUSE Linux Enterprise Server 10 (Intel)
- SUSE Linux Enterprise Server 10 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Red Hat Enterprise Linux AS 4 AS (Intel)
- Red Hat Enterprise Linux ES 4 ES (Intel)
- Red Hat Enterprise Linux WS 4 WS (Intel)
- Red Hat Enterprise Linux 4 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Red Hat Enterprise Linux 5 (Intel)
- Red Hat Enterprise Linux 5 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Solaris 9, or later

- Processor: Minimum 350 MHz
- Memory: 256 MB
- Install footprint: 50 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.)

NetView Web application

HTTP Server and Web Application Server

Any hardware that supports one of the following operating systems running on IBM WebSphere® Application Server V6.1, or the embedded version of IBM WebSphere Application Server V6.1:

- AIX V5.2, or later
- Windows Server 2003 Standard with SP1
- Windows Server 2003 Enterprise with SP1
- Windows Server 2003 Data Center with SP1
- SUSE Linux Enterprise Server 9 for zSeries (64-bit kernel only) SP2, SP3, or later Service Pack
- SUSE Linux Enterprise Server 10 for zSeries (64-bit kernel only)
- Red Hat Enterprise Server 4.0 AS (IA32) with Update 2, or later
- Red Hat Enterprise Server 4.0 ES (IA32) with Update 2, or later
- Red Hat Enterprise Linux 4.0 for zSeries (64-bit kernel only) with Update 2, or later

The install footprint is 550 MB of fixed disk space for Windows and 750 for all other platforms.

For additional hardware requirements for IBM WebSphere Application Server V6.1.0, refer to the WebSphere documentation for the applicable platform.

- Processor speed for workstation hardware: Minimum 350 MHz
- Memory: 256 MB minimum

Web browsers: Mozilla V1.7, or later

Any hardware that runs one of the following operating systems with Mozilla browser:

- SUSE Linux Enterprise Server 9 (Intel)
- SUSE Linux Enterprise Server 9 (AMD64/EM64T (32-bit application, 64-bit kernel)
- SUSE Linux Enterprise Server 10 (Intel)
- SUSE Linux Enterprise Server 10 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Red Hat Enterprise Linux 4 AS (Intel)
- Red Hat Enterprise Linux 4 ES (Intel)
- Red Hat Enterprise Linux 4 (AMD64/EM64T) (32-bit application, 64-bit kernel)
• Red Hat Enterprise Linux 5 (Intel)
• Red Hat Enterprise Linux 5 (AMD64/EMD64T) (32-bit application, 64-bit kernel)
• HP-UX 11iv2, or later (English only)
• Solaris 9, or later

Internet Explorer V6.0, or later
Any hardware that runs one of the following operating systems with Internet Explorer browser:

• Windows Server 2003 Standard with SP1
• Windows Server 2003 Enterprise with SP1
• Windows Server 2003 Data Center with SP1
• Windows XP Professional with SP2
• Windows Vista Desktop

**NetView for z/OS MultiSystem Manager components**

**MultiSystem Manager LAN Network Manager support:** Any IBM Personal Computer, or compatible computer, as required for OS/2® and LAN Network Manager V2 will support the topology agent for LAN Network Manager. The topology agent for LAN Network Manager is part of the LAN Network Manager product.

**MultiSystem Manager TCP/IP support:** NetView for z/OS MultiSystem Manager Agent for TCP/IP agent for Tivoli NetView for z/OS runs in many different environments. The hardware required is any hardware that supports one of the environments listed below. The topology agent for TCP/IP is shipped with NetView for z/OS on the workstation CD-ROM.

**AIX**
When the MultiSystem Manager TCP/IP agent is installed on Tivoli NetView for AIX, hardware that supports the following is required:

• AIX V5.2, or later
• Tivoli NetView for AIX V7.1.5, or later

**Hewlett-Packard UNIX® (HP-UX)**
The MultiSystem Manager TCP/IP network feature for HP-UX uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and IBM Tivoli NetView for z/OS V5.1. The MultiSystem Manager TCP/IP agent for HP OpenView, running on HP-UX, requires hardware that supports:

• HP-UX Version 11iv2, or later
• Hewlett Packard Network Node Manager (HP OpenView) V5.1, or later

**Windows**
The MultiSystem Manager TCP/IP network feature for Windows uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and Tivoli NetView for z/OS. The MultiSystem Manager TCP/IP agent for Tivoli NetView for Windows requires hardware that supports the following:

• Windows Server 2003 Standard with SP1
• Windows Server 2003 Enterprise with SP1
• Windows Server 2003 Data Center with SP1
• Windows XP Professional with SP2
• Tivoli NetView for Windows V7.1.5, or later

**Solaris**
The agent can be installed on Tivoli NetView for Solaris or Hewlett Packard Network Node
Manager, The MultiSystem Manager TCP/IP network feature for Solaris uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and IBM Tivoli NetView for z/OS.

- The MultiSystem Manager TCP/IP feature for Tivoli NetView for Solaris requires hardware that supports the following:
  - Solaris 9, or later
  - Tivoli NetView for Solaris V7.1.5, or later

- The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires hardware that supports the following:
  - Solaris 9, or later
  - Hewlett Packard Network Node Manager (HP OpenView) V5.1, or later

Linux

The MultiSystem Manager TCP/IP network feature for Linux uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and Tivoli NetView for z/OS. The MultiSystem Manager TCP/IP agent for Tivoli NetView for Linux requires hardware that supports the following:

- SUSE Linux Enterprise Server 9 for S/390 and zSeries
- SUSE Linux Enterprise Server 9 (Intel)
- SUSE Linux Enterprise Server 9 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Red Hat Enterprise Linux 4 AS (Intel)
- Red Hat Enterprise Linux 4 ES (Intel)
- Red Hat Enterprise Linux 4 (AMD64T/EM64T) (32-bit application, 64-bit kernel)
- Red Hat Enterprise Linux 4.0 for zSeries
- NetView Integrated TCP/IP Services Component (ITSC) V7.1.5, or later

MultiSystem Manager Tivoli Management Region

Support: The topology agent for Tivoli Management Region is shipped with NetView on the workstation CD-ROM. Any hardware that supports one of the following is required:

- AIX V5.2, or later
- Windows Server 2003 Standard with SP1
- Windows Server 2003 Enterprise with SP1
- Windows Server 2003 Data Center with SP1
- Solaris 9, or later
- HP-UX 11iv2, or later
- SUSE Linux Enterprise Server 9 (Intel)
- SUSE Linux Enterprise Server 9.0 (AMD64/EM64T) (32-bit application/64-bit kernel)
- Red Hat Enterprise Linux 4.0 for zSeries

NetView for z/OS Automated Operations Network component

- Dynamic Display Facility (DDF) requires either a 3x79 terminal with extended attribute support capable of seven colors or a workstation that supports the NetView 3270 Management Console or a workstation-based 327x terminal emulator program that provides Extended Attribute Support with a display capable of seven colors.
- The SNA Automation feature has these additional requirements for Switched Network Backup (SNBU) Automation:
  - IBM 586x modems (except Model 1) with 2-wire or 4-wire SNBU couplers, if desired, or
  - The 786x, 7855, or LPDA®-2 command-set capable modems
**Note:** Only the 786x Models 45, 46, and 47 can automatically switch back from SNBU.

**Software requirements:** This section defines the minimum programming requirements for IBM Tivoli NetView for z/OS V5.3 and its operating environments. Specific functions of NetView for z/OS may require additional products or higher levels of the products that are listed below.

NetView for z/OS is executed as an application on the z/OS operating system. 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**

- z/OS V1.6 (5694-A01), or later
- All functions related to the ACF/NCP program require:
  - ACF/NCP V4.3.1 (5668-854), or later
- All functions using TCP/IP communications from z/OS require:
  - z/OS V1.6, or later

**NetView-to-NetView communication:** In a multiple-domain network or across multiple SNA networks, the NetView program can communicate with another NetView program, regardless of the operating system. NetView for z/OS V5.3 can communicate with the following, at the listed system's level of capabilities:

- NetView V2.3 for VM/ESA® and VSE/ESA™
- Tivoli NetView for OS/390® V1.4
- IBM Tivoli NetView for z/OS V5.1
- IBM Tivoli NetView for z/OS V5.2
- IBM Tivoli NetView for z/OS V5.3

**Function compatibility:** Except as noted below under Withdrawn functions, the functions of the following versions and releases are upwardly compatible with Tivoli NetView for z/OS V5.3:

- NetView V2.3 for VM/ESA, and VSE/ESA
- Tivoli NetView for OS/390 V1.4
- Tivoli NetView for z/OS V5.1
- Tivoli NetView for z/OS V5.2

**Withdrawn functions:** As previously announced, the following functions are withdrawn beginning with IBM Tivoli NetView for z/OS V5.3, and are no longer available:

- Support 1-byte console IDs — Beginning with V5.3, NetView uses only console names, instead of console IDs.
- MultiSystem Manager Topology Feature for NetFinity.

**Notice of planned withdrawal:** IBM Tivoli NetView for z/OS V5.3 is the last release that will support the following functions:

- MultiSystem Manager LAN Network Management (LMN) Agent
- NetView for z/OS Tivoli Enterprise Portal V6.1 Agent (NetView for z/OS V5.2 only)
- LPDA-1, LPDA-2 modem support
- NetView for z/OS Tivoli Enterprise Portal Agent (NetView for z/OS V5.2 for OMEGAMON® V3.6.0 platform, and NetView for z/OS V5.3)
- Web stand-alone applications: MIB Browser, Real-Time Poller, MIB Loader, and SNMP Commands
Support for NNT sessions (also known as NetView to NetView sessions)

System definition compatibility

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

- Tivoli NetView for OS/390 V1.4
- Tivoli NetView for z/OS V5.1
- Tivoli NetView for z/OS V5.2

Note: For details, refer to the IBM Tivoli NetView for z/OS V5.3 Installation: Migration Guide.

For equivalent, non-system-dependent functions, IBM Tivoli NetView for z/OS V5.3 operates with most definition statements and command lists of the following:

- NetView V2.3 for VM/ESA and VSE/ESA
- Tivoli NetView for OS/390 V1.4
- Tivoli NetView for z/OS V5.1
- Tivoli NetView for z/OS V5.2

For equivalent, non-system-dependent functions, NetView for z/OS operates with the REXX procedures of NetView V2 and Tivoli NetView for OS/390.

The NetView constants module DSICTMOD should be updated and reassembled as part of the installation of NetView for z/OS.

User applications, written for these NetView releases in accordance with NetView customization publications and using NetView customization services, will be source compatible. A re-assembly or recompile using 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 NetView for z/OS functions and features require the specified program levels or subsequent upward-compatible levels, unless otherwise stated.

TCP/IP connection management

- z/OS V1.6, or later

IP Packet trace formatting

- z/OS V1.6, or later

NetView for z/OS Tivoli Enterprise Portal Agent:

- IBM Tivoli Monitoring V6.1 Fix Pack 5, or later.
- Optional: IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.0 or V4.1.0.
- Optional: IBM Tivoli OMEGAMON DE on z/OS V3.0.1 is required to link between NetView Tivoli Enterprise Portal Agent and OMEGAMON XE for Mainframe Networks V3.1 workspaces.

For information on software requirements for IBM Tivoli Monitoring V6.1, refer to IBM Tivoli Monitoring: Installing and Setup Guide, GC32-9407.

For additional information on IBM Tivoli OMEGAMON DE for z/OS V3.0.1, refer to the OMEGAMON Platform and CandleNet® Portal: Installing and Setting Up OMEGAMON Platform and CandleNet Portal® on Windows and UNIX documentation.
NetView for z/OS Enterprise Management Agent

- IBM Tivoli Monitoring V6.1 Fix Pack 5, or later
- IBM DB2 Universal Database (UDB) Workgroup Server Edition V8.2
- Optional: IBM Tivoli OMEGAMON XE for Mainframe Networks V4.1.0, IBM Tivoli OMEGAMON XE for CICS® on z/OS V4.1.0, and IBM Tivoli OMEGAMON XE on z/OS V4.1.0

For information on software requirements for IBM Tivoli Monitoring V6.1, refer to the IBM Tivoli Monitoring: Installing and Setup Guide, GC32-9407.

Opening incident records from NetView

One of the following:

- For IBM Tivoli Information Management
  - IBM Tivoli Information Management for z/OS V7.1
  - IBM Web Access for Information Management V1.2
  - IBM z/OS HTTP Server V5.2 or V5.3
- For Peregrine ServiceCenter
  - ServiceCenter Server V6.0 Server
  - ServiceCenter Web Client or Windows client for Database Management
  - Optional: ServiceCenter Web Client for additional management of incidents

Application-Transparent Transport Layer Security (AT-TLS)

- IBM z/OS V1.7 Communications Server, (Communications Server), or later

Mixed-case passwords

- z/OS V1.7 Security Server (RACF®), or later

Comprehensive Network Address Translator (CNAT) support

- IBM Tivoli NetView V7.1.2, or later

Support for Hot Standby Router Protocol (HSRP)

- IBM Tivoli NetView V7.1.1, or later

Support for Common Event Infrastructure

- IBM WebSphere Application Server V6.1.0.5 or the embedded version of IBM WebSphere Application Server — Express V6.1.0.5 for the appropriate operating system

For additional software requirements for IBM WebSphere Application Server V6.1.0.5, refer to the WebSphere documentation for the applicable platform.

NetView Management Console, NetView 3270 Management Console

Topology server

One of the following:

- AIX V5.2, or later

  Additional prerequisites to run on AIX:
  - C Set++ for AIX Applications xlC.rte 3.6.6.0, or later
– IBM class libraries ibmcxx.ioc.rte 3.6.6.0, or later and ibmcxx.rte 3.6.6.0, or later
– Information Presentation Facility ipfx.rte 2.2.0.0, or later

**Note:** xlC.rte, ibmcxx.ioc.rte, ibmcxx.rte, and ipfx.rte are included on the IBM Tivoli NetView for z/OS V5.3 product CD.

- Windows Server 2003 Standard with SP1
- Windows Server 2003 Enterprise with SP1
- Windows Server 2003 Data Center with SP1
- Windows XP Professional with SP2
- SUSE Linux Enterprise Server 9 for zSeries
- SUSE Linux Enterprise Server 10 for zSeries
- Red Hat Enterprise Linux 4.0 for zSeries
- Red Hat Enterprise Linux 5.0 for zSeries

**Note:** If justified for business and technical reasons, other Linux distributions may be supported at a later date. For the most current list of supported distributions, refer to the NMC Topology Server README in the Supported Functions Downloads area under "Product Support" on the NetView Web site


**Topology console**

One of the following:

- Windows Vista Desktop
- Windows Server 2003 Standard with SP1
- Windows Server 2003 Enterprise with SP1
- Windows Server 2003 Data Center with SP1
- Windows XP Professional with SP2
- SUSE Linux Enterprise Server 9 (Intel)
- SUSE Linux Enterprise Server 9 (AMD64/EM64T) (32-bit application/64-bit kernel)
- SUSE Linux Enterprise Server 10 (Intel)
- SUSE Linux Enterprise Server 10 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Red Hat Enterprise Linux 4 AS (Intel)
- Red Hat Enterprise Linux 4 ES (Intel)
- Red Hat Enterprise Linux 4.0 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Red Hat Enterprise Linux 5 (Intel)
- Red Hat Enterprise Linux 5.0 (AMD64/EM64T) (32-bit application, 64-bit kernel)
- Solaris 9, or later

**Note:** If justified for business and technical reasons, other Linux distributions may be supported at a later date. For the most current list of supported distributions, refer to the NMC Topology Console README in the Supported Functions Download area of the NetView Web site


For server communications with NetView for z/OS using LU 6.2, one of the following is required:

AIX
• IBM Communications Server for AIX, V6.1 (5765-E51)

Windows

• IBM Communications Server for NT V6.1.1, 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 V1.7, or later
• Microsoft™ Internet Explorer V6.0, or later

NetView Web application

HTTP Server and Web Application Server

• One of the following operating systems with TCP/IP installed:
  – Windows Server 2003 Standard with SP1
  – Windows Server 2003 Enterprise with SP1
  – Windows Server 2003 Data Center with SP1
  – SUSE Linux Enterprise Server 9 for zSeries (64-bit kernel only) SP2, SP3, or later Service Pack
  – SUSE Linux Enterprise Server 10 for zSeries (64-bit kernel only)
  – Red Hat Enterprise Server 4.0 AS (IA32) with Update 2, or later
  – Red Hat Enterprise Server 4.0 ES (IA32) with Update 2, or later
  – Red Hat Enterprise Linux 4.0 for zSeries (64-bit kernel only) with Update 2, or later
  – AIX V5.2, or later

Note: If justified for business and technical reasons, other Linux distributions may be supported at a later date. For the most current list of supported distributions, refer to the NetView Web Application README in the Downloads area under "Product Support" on the NetView Web site


• IBM WebSphere Application Server V6.1.0, or the embedded version of IBM WebSphere Application Server Express V6.1.0 for the appropriate operating system

For additional software requirements for IBM WebSphere Application Server V6.1.0, refer to the WebSphere documentation for the applicable platform.

• Supported locales for the Japanese version of the NetView Web application
  – For Windows, UTF-8
  – For AIX, Ja_JP IBM-939
  – For Linux on zSeries, ja_JP.euc JP

Note: If the NetView Web application is installed on the same workstation as an existing Tivoli NetView for NT, or Tivoli NetView for AIX, or in the same logical partition (LPAR) as IP resource discovery and management on Linux on zSeries, port assignment changes are required as described in the NetView Web application README.

Web browsers

For the English version of the NetView Web application, one of the following operating system and browser combinations is required:

• Windows XP Professional with SP2, Windows Server 2003 Standard with SP1, Windows Server 2003 Data Center with SP1, and Windows Server 2003 Enterprise with SP1, with Microsoft Internet Explorer V6.0, or later with Java™ Plug-in level 1.4.2_07
• Sun Solaris 9, or later with Mozilla 1.7, or later with Java Plug-in level 1.4.2_07
- HP-UX 11i v2, or later with Mozilla 1.7, or later with Java Plug-in level 1.4.2_07
- SUSE Linux Enterprise Server 9, SUSE Linux Enterprise Server10, SUSE Linux Enterprise Server 9 (AMDM64/EM64T), and SUSE Linux Enterprise Server 10 (AMDM64/EM64T) with Mozilla 1.7, or later with Java Plug-in level 1.4.2_07
- Red Hat Enterprise Linux 4 AS, Red Hat Enterprise Linux 4 ES, Red Hat Enterprise Linux 4 WS, Red Hat Enterprise Linux 4 (AMDM64/EM64T), Red Hat Enterprise Linux 5, or Red Hat Enterprise Linux 5 (AMDM64/EM64T) with Mozilla 1.7, or later with Java Plug-in level 1.4.2_07
- Note: If justified for business and technical reasons, other Linux distributions may be supported at a later date. For the most current list of supported distributions, refer to the NetView Web Application README in the Downloads area under "Product Support" on the NetView Web site

**IP Resource Discovery and Management on Linux on zSeries requires NetView Integrated TCP/IP Services Component (ITSC) V7.1.5 and one of the following:**

- SUSE Linux Enterprise Server 9 for zSeries
- SUSE Linux Enterprise Server 10 for zSeries
- Red Hat Enterprise Linux 4.0 for zSeries
- Red Hat Enterprise Linux 5.0 for zSeries

**Launching Tivoli Business System Manager from NetView Management Console or NetView Management Console from Tivoli Business System Manager**

- Tivoli Business System Manager V1.5 (5698-BSM), or later

**SNMP MIB Browser, Real-Time Poller/Grapher**

- The prerequisites are the same as for the NetView Web application.

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

- Tivoli Enterprise Console V3.8 or V3.9

**Using secure framework communication also requires:**

- Tivoli Management Framework for OS/390 V3.7.1, or later

**z/OS TCP/IP Stack Management and Telnet 3270 Management**

- Optional: In order to be able to dynamically add to the set of resources monitored and displayed at NMC, DB2® for OS/390 V5.1 (5655-DB2), or later is required.

**Issuing z/OS UNIX Services Commands from NetView**

- REXX alternate run-time (same as for MultiSystem Manager component)

**Support for IBM LAN Network Manager Enhanced Command Interface**

- IBM LAN Network Manager V2.0 (03H3519, 03H3523, or 03H3527)

**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 or signal converters that support LPDA-2 commands:

- 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 alerts

- NetView Performance Monitor V1.6 (5665-333 MVS), or later, for session alerts

SAF security checking

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

- RDOM 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

MultiSystem manager component

Topology feature for Tivoli Management Region

- IBM Tivoli Monitoring V5.1.2
- A compatible level between each of the following:
  - Tivoli Enterprise Console V3.8 or V3.9
  - Tivoli Management Framework V3.7.1 or V4.1.1
- One of the following:
  - AIX V5.2, or later
  - Windows Server 2003 Standard with SP1
  - Windows Server 2003 Enterprise with SP1
  - Windows Server 2003 Data Center with SP1
  - Solaris 9, or later
  - HP-UX 11iV2, or later
  - SUSE Linux Enterprise Server 9
  - SUSE Linux Enterprise Server 9 (AMD64/EM64T) (32-bit application, 64-bit kernel)
  - SUSE Linux Enterprise Server 9 for zSeries
  - Red Hat Enterprise Linux 4.0 for zSeries

Commands from IBM Tivoli NetView for z/OS to TEC

- MSM Topology feature for Tivoli Management Region

Topology feature for LAN Network Manager

- IBM LAN Network Manager V2.0 (03H3519, 03H3523, or 03H3527) with NetView connectivity
- Communications Manager/2 V1.1 (79G0258 or 79G0257), or later, configured with:
– Service Point Application Router (SPAR)

**Topology TCP/IP Network Feature:** The MultiSystem Manager for TCP/IP agent for IBM Tivoli NetView for z/OS runs in many different environments. The requirements for each environment are included below.

- **AIX**
  When the MultiSystem Manager TCP/IP agent is installed on Tivoli NetView for AIX, the following are required:
  - AIX V5.2, or later
  - Tivoli NetView for AIX V7.1.5, or later

- **HP-UX**
  The MultiSystem Manager TCP/IP network feature for HP-UX uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and IBM Tivoli NetView for z/OS. The MultiSystem Manager IP agent for HP OpenView, running on HP-UX, requires:
  - HP-UX 11iv2, or later
  - Hewlett Packard Network Node Manager (HP OpenView) V5.1, or later

- **Windows**
  The MultiSystem Manager TCP/IP network feature for Windows uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and IBM Tivoli NetView for z/OS. The MultiSystem Manager TCP/IP agent for Tivoli Netview for Windows requires:
  - Windows Server 2003 Standard with SP1
  - Windows Server 2003 Enterprise with SP1
  - Windows Server 2003 Data Center with SP1
  - Windows XP Professional with SP2
  - IBM Tivoli NetView for Windows V7.1.5, or later

- **Solaris**
  The MultiSystem Manager TCP/IP network feature for Solaris uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and Tivoli NetView for z/OS. The agent can be installed on Tivoli NetView for Solaris or Hewlett Packard Network Node Manager.
  - The MultiSystem Manager TCP/IP feature for Tivoli Netview for Solaris requires:
    -- Solaris 9, or later
    -- Tivoli NetView for Solaris 7.1.5, or later
  - The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires:
    -- Solaris 9, or later
    -- HP OpenView V5.1, or later

- **Linux**
  The MultiSystem Manager TCP/IP network feature for Linux uses TCP/IP to communicate between the MultiSystem Manager TCP/IP agent and Tivoli NetView for z/OS. The MultiSystem Manager TCP/IP agent for Tivoli NetView for Linux requires hardware that supports the following:
  - NetView Integrated TCP/IP Services Component (ITSC) V7.1.5, or later
  With one of the following:
  - SUSE Linux Enterprise Server 9 (Intel)
  - SUSE Linux Enterprise Server 9 (AMD64/EM64T) (32-bit application, 64-bit kernel)
  - SUSE Linux Enterprise Server 9 for zSeries
  - Red Hat Enterprise Linux 4 AS (Intel)
  - Red Hat Enterprise Linux 4 ES (Intel)
– Red Hat Enterprise Linux 4 WS (Intel)
– Red Hat Enterprise Linux 4 (AMD64/EM64T) (32-bit application, 64-bit kernel)
– Red Hat Enterprise Linux 4 for zSeries

Automated Operations Network component

SNA automation

• To use the SNBU automation:
  – ACF/NCP V4.3.1 (5668-854), or later; V5.4 (5668-738), or later is required for complete
    DMPX support of IBM 7861/8 model 4x modems.

Customer requirements

The following requirements are wholly or partially answered in NetView V5.3:

• MR0105063042: Expand AON panel FKXK2221 function
• MR011805103: EAS Trap to Alert service doesn't currently support SNMP V2 traps
• MR020305456: Include PIPE CORRWAIT Return Codes in CORRCMD Documentation
• MR0317061457: Enhance AON Panel FKXKSSF0 TYPE field.
• MR0614064248: LOGCMRESP support in NetView's GETCONID/SETCONID (=SHARE
  SSNETW05111)
• MR0712066351: T MPF=00 turns command mgmt off
• MR0823063016: Modifying CnmSTYLE with *NONE*
• MR0831055322: Netview to check for existence of a clist prior to calling SAF for command
  authorization check
• MR091004430: AON should check for duplicate Configuration file statements
• MR1114053646: Request a KeepAlive Function for Netview RMTCMD IP Sessions

Planning information

Direct customer support

Direct customer support is provided by IBM Operational Support Services — SoftwareXcel
Enterprise Edition or SoftwareXcel Basic Edition. These fee services can enhance your
productivity by providing voice and electronic access into the IBM support organization. IBM
Operational Support Services — SoftwareXcel Enterprise Edition or SoftwareXcel Basic Edition
will help answer questions pertaining to usage, how-to, and suspected software defects for
eligible products.

Installation and technical support is provided by IBM Global Services. For more information on
services, call 888-426-4343.

Security, auditability, and control

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

Ordering information

Refer to the IBM Publications Center Web site for more information about publication ordering.

  http://www.ibm.com/shop/publications/order

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 U.S., 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 Web site at


Order VM SDO and VSE SIPO through the Internet

ShopzSeries provides an easy way to plan and order System z™ software upgrades. This now includes VM and VSE. Using ShopzSeries, you can quickly generate orders for VM SDOs and VSE SIPOs. Additionally, ShopzSeries will ensure your order is technically correct (that is, ensures any corequisite or prerequisite or incompatibility conditions are resolved to ensure timely order placement and processing). ShopzSeries is available in the United States 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 Web site at

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

Current licensees

Current licensees of IBM Tivoli NetView for z/OS will be sent a program reorder form that can be returned directly to IBM Software Delivery and Fulfillment.

Reorder forms are scheduled to be mailed by August 10, 2007. Reorder forms returned to IBM Software Delivery and Fulfillment.

New licensees

Orders for new licenses can be placed now.

Registered customers can access IBMLink™ for ordering information and charges.

Shipment will not occur before the availability date.

Unless a later date is specified, orders entered before the planned availability date will be assigned a schedule date of one week following availability.

- Orders entered after the planned availability date will be assigned a schedule date for the week following order entry.
- Orders entered with a scheduled date before the planned availability date will be shipped IBM Tivoli NetView for z/OS V5.2.
- Orders entered with a scheduled shipment date after planned availability will be shipped IBM Tivoli NetView for z/OS V5.3. Unless a later date is specified, an order is scheduled for the week following order entry.

To ensure customers receive technical support to which they are entitled for Tivoli NetView for distributed systems, a no-charge support order for non z/OS deliverables is required from Passport Advantage®. Order the following Passport Advantage part number:

<table>
<thead>
<tr>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E02BLLL IBM Tivoli NetView — Support Only Annual SW Maint Rnw</td>
</tr>
</tbody>
</table>

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

Type:  Model:

5697 ENV

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>
</tr>
</thead>
<tbody>
<tr>
<td>S00W020</td>
<td>Tivoli Netview for z/OS V5.3</td>
<td>Basic MLC, PSLC below 3 MSU, SYSUSGREG NC, PSLC AD</td>
</tr>
<tr>
<td></td>
<td>z/OS V5.3</td>
<td>Basic MLC, PSLC AD</td>
</tr>
<tr>
<td>S00W020</td>
<td>License Certificate</td>
<td></td>
</tr>
<tr>
<td>S0148PZ</td>
<td>Tivoli Enterprise Monitoring Agent V5.3</td>
<td>Basic MLC, PSLC below 3 MSU, SYSUSGREG NC, PSLC AD</td>
</tr>
<tr>
<td></td>
<td>z/OS V5.3</td>
<td>Basic MLC, PSLC AD</td>
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<tr>
<td></td>
<td>License Certificate</td>
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</tbody>
</table>

Workload License Charge (WVLC) 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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</thead>
<tbody>
<tr>
<td>S00W020</td>
<td>IBM Tivoli Netview for z/OS V5.3</td>
<td>Basic MLC, Variable WLC, Workload Registration, Variable WLC</td>
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<td></td>
<td>z/OS V5.3</td>
<td>Basic MLC, Variable WLC</td>
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<tr>
<td></td>
<td>License Certificate</td>
<td></td>
</tr>
<tr>
<td>S00W020</td>
<td>License Certificate</td>
<td></td>
</tr>
<tr>
<td>S0148PZ</td>
<td>Tivoli Enterprise Monitoring Agent V5.3</td>
<td>Basic MLC, Variable WLC, Workload Registration, Variable WLC</td>
</tr>
<tr>
<td></td>
<td>License Certificate</td>
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</tbody>
</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>
<th>Description</th>
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</thead>
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<tr>
<td>S00W020</td>
<td>IBM Tivoli Netview for z/OS V5.3</td>
<td>Basic MLC, Entry WLC</td>
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<tr>
<td>S00W020</td>
<td>License Certificate</td>
<td></td>
</tr>
<tr>
<td>S0148PZ</td>
<td>Tivoli Enterprise Monitoring Agent V5.3</td>
<td>Basic MLC, Entry WLC</td>
</tr>
<tr>
<td></td>
<td>License Certificate</td>
<td></td>
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</tbody>
</table>

Growth Opportunity License Charge (GOLC): To order GOLC software, specify the program number, and the GOLC monthly charge feature from the table below. Also, specify the desired distribution medium.

Specify the GOLC monthly license option.

<table>
<thead>
<tr>
<th>Entitlement Identifier</th>
<th>Description</th>
<th>License option/pricing metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00W020</td>
<td>IBM Tivoli Netview for z/OS V5.3</td>
<td>Basic MLC, GOLC</td>
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<tr>
<td>S00W020</td>
<td>License Certificate</td>
<td></td>
</tr>
<tr>
<td>S0148PZ</td>
<td>Tivoli Enterprise Monitoring Agent V5.3</td>
<td>Basic MLC, GOLC</td>
</tr>
<tr>
<td>S00W020</td>
<td>License Certificate</td>
<td></td>
</tr>
</tbody>
</table>

zSeries Entry License Charge (ZELC): To order a basic license, specify the program number and z800 model.
Specify the zELC monthly license option.

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
<th>Description</th>
<th>License option/ pricing metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00WM20</td>
<td>IBM Tivoli NetView for z/OS V5.3 License Certificate</td>
<td>Basic MLC, zELC</td>
</tr>
<tr>
<td>S00WLL0</td>
<td>Tivoli Enterprise Monitoring Agent V5.3</td>
<td>License Certificate</td>
</tr>
</tbody>
</table>

For more information on zELC pricing, refer to Software Announcement 202-036, dated February 19, 2002.

**Single version charging**: To elect single version charging, the customer must notify and identify to IBM the prior program and replacement program and the designated machine the programs are operating on.

**Basic machine-readable material**

<table>
<thead>
<tr>
<th>Orderable supply ID</th>
<th>Language</th>
<th>Distribution medium description</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00WLLX</td>
<td>U.S. English</td>
<td>3480 Tape Cartridge Tivoli NetView for z/OS English</td>
</tr>
<tr>
<td>S00WP42</td>
<td>Japanese</td>
<td>3480 Tape Cartridge Tivoli NetView for z/OS Japanese</td>
</tr>
<tr>
<td>S01496J</td>
<td>U.S. English</td>
<td>3480 Tape Cartridge Tivoli Enterprise Monitoring Agent English</td>
</tr>
</tbody>
</table>

**Customization options**: Select the appropriate feature numbers to customize your order to specify the delivery options desired. These features can be specified on the initial or MES orders.

 Expedite shipments will be processed to receive 72-hour delivery from the time IBM Software Delivery and Fulfillment (SDF) receives the order. SDF will then ship the order via overnight air transportation.

**Unlicensed documentation**

The following U.S. English publications are supplied automatically with the basic machine-readable material:

<table>
<thead>
<tr>
<th>Form number</th>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>G10-3194</td>
<td>IBM Tivoli NetView for z/OS English Program Directory</td>
</tr>
<tr>
<td>G10-3243</td>
<td>IBM REXX/370 Alternate Library Program Directory</td>
</tr>
<tr>
<td>LCD4-4916</td>
<td>IBM Tivoli NetView for z/OS Volume 1 CD-ROM (English)</td>
</tr>
<tr>
<td>LCD4-5000</td>
<td>IBM Tivoli NetView for z/OS Volume 2 CD-ROM (English)</td>
</tr>
<tr>
<td>GC31-8848</td>
<td>IBM Tivoli NetView for z/OS Licensed Programming Specifications</td>
</tr>
<tr>
<td>SC31-8873</td>
<td>IBM Tivoli NetView for z/OS V5.3 Installation: Migration Guide</td>
</tr>
<tr>
<td>SC31-8872</td>
<td>IBM Tivoli NetView for z/OS V5.3 Installation: Getting Started</td>
</tr>
<tr>
<td>SC31-8869</td>
<td>IBM Tivoli NetView for z/OS V5.3 Tuning Guide</td>
</tr>
<tr>
<td>LK2T-6175</td>
<td>IBM Tivoli NetView for z/OS V5.3 Online Library CKIT CD-ROM</td>
</tr>
<tr>
<td>LCD7-0830</td>
<td>IBM Tivoli NetView for z/OS Kit (contains distributed NetView 7.1.4, similar to LCD7-0609-00)</td>
</tr>
</tbody>
</table>

The following softcopy publications are shipped on the softcopy CD-ROM, LK2T-6175 Tivoli NetView for z/OS Online Library:

<table>
<thead>
<tr>
<th>Form number</th>
<th>Publication</th>
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</thead>
<tbody>
<tr>
<td>SC31-8854</td>
<td>Administration Reference</td>
</tr>
<tr>
<td>SC31-8871</td>
<td>AON Customization Guide</td>
</tr>
<tr>
<td>GC31-8851</td>
<td>AON User’s Guide</td>
</tr>
<tr>
<td>SC31-8855</td>
<td>Application Programming Guide</td>
</tr>
</tbody>
</table>
When Japanese media is ordered, the U.S. English publications are shipped with the exception of the Program Directory. A Japanese Program Directory is shipped.

<table>
<thead>
<tr>
<th>Publication</th>
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<tbody>
<tr>
<td>GI10-3210</td>
<td>IBM Tivoli NetView for z/OS Japanese Program Directory</td>
</tr>
<tr>
<td>GI10-3243</td>
<td>IBM REXX/370 Alternate Library Program Directory</td>
</tr>
<tr>
<td>LCD4-4929</td>
<td>IBM Tivoli NetView for z/OS Volume 1 CD-ROM (Japanese)</td>
</tr>
<tr>
<td>LCD4-5000</td>
<td>IBM Tivoli NetView for z/OS Volume 2 CD-ROM (Japanese)</td>
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<tr>
<td>GC31-8848</td>
<td>IBM Tivoli NetView for z/OS Licensed Programming Specifications</td>
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<tr>
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<td>IBM Tivoli NetView for z/OS V5.3 Installation: Migration Guide</td>
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<tr>
<td>SC31-8869</td>
<td>IBM Tivoli NetView for z/OS V5.3 Tuning Guide</td>
</tr>
<tr>
<td>LK2T-6175</td>
<td>IBM Tivoli NetView for z/OS V5.3 Online Library</td>
</tr>
<tr>
<td>LCD7-0830</td>
<td>IBM Tivoli NetView for z/OS Kit (contains distributed NetView 7.1.4, similar to LCD7-0609-00)</td>
</tr>
</tbody>
</table>

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 Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. 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)

Media type for this software product is chosen during the customized offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOS — 3480, 3480 Compressed, 3490E, 3590, 3592*
- ServerPacs — 3480, 3480 Compressed, 3490E, 3590, 3592*
- SystemPacs — 3480, 3480 Compressed, 3490E, 3590, 3592*
  * 3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and
SystemPac monthly update.

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 inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization, and data input verification.

Terms and conditions

The terms for IBM Tivoli NetView for z/OS, as previously announced in Software Announcement 205-327, dated December 13, 2005, licensed under the IBM Customer Agreement are unchanged with one exception by this announcement. DB2 Universal Database components are now included with IBM Tivoli NetView for z/OS.

IBM operational support services — SupportLine: Yes

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

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Prices

Prices for IBM Tivoli NetView for z/OS V5.3 remain the same and are unaffected by this announcement.

IBM Tivoli Enterprise Monitoring Agent V5.3 is a no-charge feature, therefore pricing information is not included.

For additional information, refer to Software Announcement 205-246, dated October 4, 2005.

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Note: Shipments will begin after the planned availability date.

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