IBM Tivoli NetView for z/OS V5.2 delivers single point of control for managing diverse networks and platforms

Overview
IBM Tivoli® NetView® for z/OS® V5.2 offers state-of-the-art management for your critical networked computing infrastructure. As your network has evolved over the years, so has NetView. IBM has been there to meet your business needs.

Enterprise integration
To help make z/OS unique data available for integration within broader enterprise management, support has been added for the Common Event Infrastructure, Common Base Events, interoperability with OMEGAMON® XE for Mainframe Networks V3.1, and integration with service desk products (IBM Tivoli Information Management and Peregrine ServiceCenter).

TCP/IP management
As you deploy TCP/IP for your z/OS systems, NetView for z/OS is there to manage that environment. There is no requirement to learn a new network management tool. NetView provides the management function that allows you to deploy TCP/IP with all its sophisticated z/OS capabilities including support for IPv6 and SNMPv3, automated response to intrusions, connection management, real-time formatted packet traces, network address translation (CNAT), and Sysplex topology.

NetView Web Application
NetView’s Web Console has been functionally enriched and is easier to use. Making effective use of the Web’s pervasive technology, the NetView Web Application helps make NetView more accessible from wherever you are. This helps you leverage your scarce network support resources, and can help make your people more effective in performing tasks such as TCP/IP diagnostics, managing SNMP-based resources, and creating trouble tickets.

z/OS and communications server management
NetView’s long history of providing management for the mainframe environment (including the operation system, its communications server, and other functions) continues in NetView for z/OS V5.2. In addition, it supports Sysplex topology, message revision, automated response to intrusions, and other enhancements that keep your management capabilities in sync with operating system capabilities.

Automation
NetView’s already rich automation capabilities are significantly enhanced with the addition of:
1. Message revision, which allows customer-defined modification of attributes (such as color, route code, display, and syslog attributes) of original z/OS-based messages (rather than copies)
2. Event correlation

Key prerequisites
z/OS V1.4, or later

Planned availability dates
• October 28, 2005 —English
• January 27, 2006 —Japanese

At a glance
IBM Tivoli NetView for z/OS V5.2 enhancements:
• Enterprise management
  - Interoperability with OMEGAMON XE for Mainframe Networks V3.1 and Tivoli Enterprise™ Portal (TEP)
  - Integration with service desk products (IBM Tivoli Information Management and Peregrine ServiceCenter)
• TCP/IP management
  - Connection management
  - Real-time Packet Trace formatting
  - Sysplex Topology,
  - MultiSystem Manager TCP/IP Agent enhancements
• Web Application
  - Open incident records in leading problem management products
• Time to value
  - CNMSTYLE Migration Tool and Report Generator
• Automation
  - Ability to revise message attributes

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Reference: LE001
Enterprise management

To help make z/OS-unique data available for integration within a broader enterprise management, NetView for z/OS V5.2 provides the following functions:

- Interoperability with OMEGAMON XE for Mainframe Networks V3.1 and Tivoli Enterprise Portal (TEP). Through a common user interface that integrates TCP/IP data from both NetView and OMEGAMON, this new function provides customers with a consolidated TCP/IP workbench, management of both TCP/IP availability, and performance from a single user interface.

- Support for Common Base Events. Common Base Events provide a strategic, new, industry-standard event format for use in automation and systems management. They allow hardware and software products to report standardized information to facilitate automation and enable products to easily work with data from other products. As part of this new function, NetView offers mechanisms for customers to select messages and alerts to convert to the new format. NetView’s automation technology is also enhanced to handle this new event format natively.

- Support for Common Event Infrastructure (CEI) — An IBM component technology that provides a WebSphere® Enterprise Application that stores Common Base Events in a database and provides access to the database via application APIs. NetView uses the Common Event Infrastructure APIs to store Common Base Events that it creates, and to receive events from the database for automation purposes and to display them in the NetView Web application.

- NetView integration with leading service desk products (IBM Tivoli Information Management and Peregrine ServiceCenter). This new function provides NetView for z/OS customers the ability to create incident reports with standard data.

TCP/IP and SNMP management

Building on the TCP/IP and SNMP management capabilities in previous releases, NetView for z/OS V5.2 introduces the following capabilities:

- Availability data for TCP/IP connections. This function offers information that allows customers to know how well a given TCP/IP connection is working. This includes connection start/stop data (date, time, name of the address space that established the connection, local owner’s Task Control Block (TCB) address, and more), along with associated performance data, such as bytes sent and received, re-transmits, and maximum send window. The data collected is real time and continuous rather than snapshots, thus enabling a more complete picture of connections over time. Users can choose which TCP/IP stacks they are interested in, either as a configuration parameter or dynamically when they start data collection. They can also optionally start GTF tracing of incoming records and buffers, if perhaps that level of information is needed for debugging. Data is available for either live or historical connections. So as not to be presented with extraneous information, users can query only connection records that meet their criteria.

- Packet trace data and formatting. This provides the highly flexible ability to collect and format packet traces in real time. Formatted results are available for display on a terminal (where they will be readable by a human operator), and unformatted results are available for processing through automation.

- Management of the IBM Tivoli Monitoring environment. NetView’s MultiSystem Manager Tivoli Management Region (TMR) agent has been enhanced to extend management support to resources monitored by IBM Tivoli Monitoring V5.1, or later.

- IPv6 support. NetView will display IPv6 addresses in any context where an IP address can currently occur, such as messages, NMC views, and so on. Input of IPv6 addresses is accepted in selected contexts.

- Enhancements to the MultiSystem Manager (MSM) TCP/IP Agent.

  - Support is included for the Hot Standby Router Protocol that is used for fault tolerance and load balancing.

  - Support for Comprehensive Network Address Translator (CNAT). CNAT product translates IP addresses as packets are routed from one network to another network. Beyond simply modifying the header of each packet, it also examines the packet and translates addresses inside the packet, should it contain such things as SNMP-type information. NetView flags such translated addresses with a special symbol, as well as providing the corresponding original address.

  - Support of Layer 2 as monitored by Tivoli Switch Analyzer.

- Native TRACEROUTE. A new command processor is provided to execute TCP/IP TRACEROUTE commands directly from the NetView address space. This improves performance and eliminates the need for system programmer setup for this function in UNIX® System Services.

- Dynamic loading of MIBs from NetView Web interface. This capability was already available through the NetView Management Console (NMC), and is now offered from the NetView Web console. This function enables users to dynamically load and unload MIBs for use by functions such as the MIB Browser, Real-Time Poller, and the SNMP Web Client. This is useful, for example, when a customer adds a new type of machine to the network and needs to add customization for that machine type to their network management. They can use this function to load the MIB definitions for it, so they can communicate with and monitor the new machines in detail. Conversely, if the customer removes all machines of a certain type from the network, they can use the NetView Web interface to remove the MIB definitions.

- Dynamic Virtual IP Addressing (DVIPA). DVIPA has been moved from NetView’s Automated Operations Network (AON) TCP component to base NetView. This allows customers to manage DVIPA networks without first having to configure and enable AON. The DVIPA functionality itself is unchanged, but additional customization is provided.

- Increased Resource Object Data Manager (RODM) capacity. The capacity of RODM, NetView’s operational data cache, has been increased to approximately 2 million objects. This provides continued management capability for customers’ growing networks. Actual capacity in a specific customer environment may vary somewhat, depending on the structure of objects used.
Web Application

NetView for z/OS is continually improving its Web Application. Enhancements in NetView for z/OS V5.2 include:

- **Web Application Server.** The open-source Jetty servlet engine is replaced with an embedded version of IBM WebSphere Application Server — Express.
- **Expanded functionality.** The functionality available through the NetView Web Application is substantially enhanced, and now includes TCP/IP Connection Management, Real-time Packet Trace Formatting, Sysplex Topology, NetView 3270 Console access, an event viewer for Common Base Events, the ability to open incidents in leading problem management products, interoperability with OMEGAMON XE for Mainframe Networks V3.1, Portfolio customization, greater ease of use, and more.

z/OS and Communications server management

NetView for z/OS is constantly updating and improving management support of z/OS and Communications Server. New or expanded functions in this area include:

- **z/OS message revision.** This allows customers to intercept original z/OS-based messages (rather than copies) and make changes to their attributes, including: text, color, route codes, descriptor codes, display and syslog attributes, and others. By customer choice, revised messages can be routed to NetView automation for further processing, or not.
- **Sysplex topology.** This function provides for the collection and consolidation of data relating to sysplex resources. The top-level aggregate represents all the defined sysplexes in an enterprise. Each sysplex is comprised of a number of z/OS and OS/390® system images. Each z/OS system image may, in turn, contain several TCP/IP stacks. Graphical topology views are available through NMC, and tabular (textual) views on the Web console through the NetView Web Application.
- **Support for z/OS console restructure.** In accordance with operating system changes made as part z/OS’s console restructure, NetView V5.2 will be the last release to support 1-byte console IDs. That support will remain functional only when running on z/OS V1.7, or earlier release of that operating system.
- **Support for Intrusion Detection Service (IDS).** When Communications Server’s IDS detects an intrusion, it issues a message, which NetView traps for automation. Based on information contained in the IDS notification message, NetView can display the notification at the designated operator console, notify the security administrator, via e-mail or pager, collect associated statistics and attach to e-mail, or forward the intrusion detection notification to Tivoli Risk Manager for enterprise-wide correlation and analysis.
- **Report generator for CNMSTYLE.** This function provides a report that shows the layout of NetView’s central configuration member CNMSTYLE and its %INCLUDED members. It allows customers 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.
- **Simplified command migration.** NetView for z/OS V5.2 provides customers a way to change CMDTSYN definitions for ANY commands in their own dataset members, rather than having to modify IBM-provided members. Now customers can maintain all their customization in DSICMDU, for much easier and clearer segregation and management of IBM-provided and customer-provided definitions.
- **CNMSTYLE migration tool.** A significant change in NetView’s customization paradigm was made in V1.4 with the introduction of the NetView “style sheet” CNMSTYLE. This tool significantly eases migration from “pre-stylesheet” NetView releases (that is, NetView for OS/390 V1.3 or earlier, as far back as NetView for MVS® V2.4) to the latest release. The migration tool creates a CNMSTYLE-type file from the configuration files for any configuration files that have been converted to CNMSTYLE, such as BNJMBDST, CNE1034, and CNE1015. In addition, it compares the user’s old parameter files that have been converted, with the current CNMSTYLE, highlighting the differences. This allows the migrating user to see where configuration decisions may be needed during the migration. In addition, this tool migrates common definitions from the DSICMD member to CNMSTYLE.
- **Reorganize CNMSTYLE.** The content of CNMSTYLE and relevant %INCLUDE members has been re-organized along the lines of function rather than statement type. Additionally, handling of and instructions for user-modified statements have changed, so as to make it easier for customers to specify and maintain their own customization statements and keep them segregated from IBM-provided statements.

Security

NetView for z/OS V5.2 provides enhanced security and integrity in the following areas:

- **NetView’s NETCONV command.** NetView establishes the connection between the NetView host and the NetView Management Console (NMC) Server, and is also used by Tivoli Business Systems Manager to establish the connection to its Task Server component. In previous releases, NetView itself has provided encryption for connections, rather than using an external encryption product or service. NetView V5.2 retains the existing encryption capability to allow for migration, but supports is added for Application-Transparent Transport Layer Security (AT-TLS), a service provided by Communications Server in z/OS V1.7. Using this new support, customers can specify encryption policy in a Communications Server policy agent, and NetView will observe that policy in its NETCONV connections.
- **Mixed-case passwords.** NetView currently converts passwords to uppercase before calling the security authorization product such as z/OS Security Server (RACF®). This is necessary because only uppercase has been allowed in password definitions. In cooperation with z/OS V1.7 Security Server, NetView will support the use of mixed-case passwords when running with that operating system release, or later. This treatment will be available for passwords entered from the command line, from NetView REXX procedures, and any other parts that handle passwords. This support dramatically reduces the possibility of a successful random logon attempt.
Automation

NetView for z/OS V5.2 provides enhanced automation capabilities.

- Message revision. With this function, customers can intercept original z/OS (MVS) messages (rather than copies) and make changes to their attributes, including text, color, route codes, descriptor codes, display, and syslog attributes, and others. By customer choice, revised messages can be routed to NetView automation for further processing, or not.

- Event correlation. As an extension to existing automation capabilities, NetView for z/OS V5.2 provides a correlation engine that allows customers to detect, correlate, and act on duplicate events, thresholds, a collection of events received over a designated time period, a specified sequence of events, or the absence of a specified sequence.

NMC enhancements

- Predefined and automatic NETCONV sessions. NETCONV sessions now can be predefined and automatically started at NetView initialization. Sessions can be restored when NetView is recycled and a backup host gets control. Further, customers have the ability not to terminate NETCONV sessions when the NetView operator who started the session logs off or is terminated.

- Save NMC log to file. NMC users now have the ability to save the NMC log to a file so they can review the log after NMC is shut down. A “Save as” dialog box allows the user to name the saved log file and to select a location for it.

- Customizable labels. For both real and aggregate RODM resources, customers can now customize the text of the “Data1,” “Data2,” and “Data3” labels shown under “Resource Properties”, as needed, to make those labels more meaningful in the customer’s business. Additionally, the labels in the NMC business tree, which today read “Networking,” “Networking Views,” and “Exception Views,” can be customized as needed.

- Customizable double mouse click behavior. Users can now easily customize the right and left double mouse click on real and aggregate RODM resources.

NetView provides interoperability with OMEGAMON XE for Mainframe Networks V3.1 and Tivoli Enterprise Portal (TEP). Through a common user interface that integrates TCP/IP data from both NetView and OMEGAMON, this new function provides customers with a consolidated TCP/IP workbench, management of both TCP/IP availability and performance from a single user interface. Other examples of products that work with NetView for z/OS include System Automation for z/OS (5698-A14) and Tivoli NetView (5698-NVW). NetView provides the automation services and graphical topology services for System Automation for z/OS, the strength of which is OS/390 and z/OS system automation. Tivoli NetView for z/OS V5.2 integrates network automation.

Also, Tivoli NetView for z/OS V5.2 can also forward collected z/OS management information to other management applications. For example, z/OS messages and events can be sent to Tivoli Enterprise Console® (TEC) as events for end-to-end correlation, action, and display. Additionally, Tivoli NetView for z/OS V5.2 delivers management services to Tivoli Business System Manager for its handling of OS/390 and z/OS subsystems such as CICS®, DB2®, and IMS™.

With its open APIs, NetView for z/OS can be an integration point for both z/OS vendors and distributed vendors.

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 set up through production-ready automation and extends centralized management into multiple non-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.
Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 205-246


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Call IBM Global Services IT Education Services at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Technical information

Specified operating environment

Hardware requirements: IBM Tivoli® NetView® for z/OS V5.2 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:
- Microsoft® Windows® 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2003 Server Standard
- Windows 2003 Server Enterprise
- Windows XP Professional
- SUSE Linux® Enterprise Server 8 (Intel™)
- SUSE LINUX Enterprise Server 9 (Intel)
- Red Hat Enterprise Linux AS 2.1 (Intel)
- Red Hat Enterprise Linux ES 2.1 (Intel)
- Red Hat Enterprise Linux WS 2.1 (Intel)
- Red Hat Enterprise Linux AS 3 (Intel)
- Red Hat Enterprise Linux ES 3 (Intel)
- Red Hat Enterprise Linux AS 4 (Intel)
- Red Hat Enterprise Linux ES 4 (Intel)
- Red Hat Enterprise Linux WS 4 (Intel)
- Solaris 9, or later
- AIX® V5.1 (5765-E61) at recommended maintenance level 05, or later

Additional prerequisites to run on AIX:
- C Set++ for AIX Applications xIC.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: xIC.rte, ibmcxx.ioc.rte, ibmcxx.rte, ipfx.rte, and gska.rte are in on the IBM Tivoli NetView for z/OS V5R2 product CD.
- HP-UX V11, or later

 topology server

Any hardware that supports one of the following operating systems:
- AIX 5.1, or later
- Windows 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2003 Server Standard
- Windows 2003 Server Enterprise
- Windows XP Professional
- SUSE LINUX Enterprise Server 8 for zSeries®
- SUSE LINUX Enterprise Server 9 for zSeries
- Red Hat Enterprise Linux 3.0 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 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows 2003 Server Standard
- Windows 2003 Server Enterprise
- Windows XP Professional
- SUSE LINUX Enterprise Server 8 (Intel)
- SUSE LINUX Enterprise Server 9 (Intel)
- Red Hat Enterprise Linux AS 2.1 (Intel)
- Red Hat Enterprise Linux ES 2.1 (Intel)
- Red Hat Enterprise Linux WS 2.1 (Intel)
- Red Hat Enterprise Linux AS 3 (Intel)
- Red Hat Enterprise Linux ES 3 (Intel)
- Red Hat Enterprise Linux WS 3 (Intel)
- Red Hat Enterprise Linux AS 4 (Intel)
- Red Hat Enterprise Linux ES 4 (Intel)
- Red Hat Enterprise Linux WS 4 (Intel)
- Red Hat Enterprise Linux WS 4 (Intel)
- 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.

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- 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 IBM WebSphere® Application Server V6.0.2 or the embedded version of IBM WebSphere Application Server — Express V6.0.2.:
- AIX V5.1 (5765-E61) at recommended maintenance level 05, or later
- Windows 2000 Server SP4
- Windows 2000 Advanced Server SP4
- Windows Server 2003 Standard
- Windows Server 2003 Enterprise
- SUSE LINUX Enterprise Server 8 for zSeries
- SUSE LINUX Enterprise Server 9 for zSeries
- Red Hat Enterprise Linux 3.0 for zSeries

The install footprint is 400 MB of fixed disk space. For additional hardware requirements for IBM WebSphere Application Server V6.0.2, refer to the WebSphere documentation for the applicable platform.

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

Web browsers

Mozilla Firefox 1.7, or later

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

- SUSE LINUX Enterprise Server 8 (Intel)
- SUSE LINUX Enterprise Server 9 (Intel)
- SUSE LINUX Enterprise Server 9 (AMD64/EM64T)
- Red Hat Enterprise Linux AS 2.1 (Intel)
- Red Hat Enterprise Linux ES 2.1 (Intel)
- Red Hat Enterprise Linux WS 2.1 (Intel)
- Red Hat Enterprise Linux AS 3 (Intel)
- Red Hat Enterprise Linux ES 3 (Intel)
- Red Hat Enterprise Linux WS 3 (Intel)
- Red Hat Enterprise Linux AS 4 (Intel)
- Red Hat Enterprise Linux ES 4 (Intel)
- Red Hat Enterprise Linux WS 4 (Intel)
- Red Hat Enterprise Linux 4 (AMD64/EM64T)
- Solaris 9, or later
- HP-UX 11, or later
- Solaris 9, or later

Internet Explorer 6.0, or later

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

- Windows 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows Server 2003 Standard
- Windows Server 2003 Enterprise
- Windows XP Professional

NetView for z/OS MultiSystem Manager component

MultiSystem Manager LAN Network Manager support

Any IBM Personal Computer, or compatible computer, as required for Operating System/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

The MultiSystem Manager 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 V5.1 (5765-E61) at recommended maintenance level 05, or later
- Tivoli NetView for AIX V7.1.4, or later

The agent can communicate with Tivoli NetView for z/OS via SNA or TCP/IP. If you are using SNA to communicate between the MultiSystem Manager TCP/IP agent and Tivoli NetView for z/OS, hardware that supports the following is also required:

- AIX NetView Service Point V1.3.3 (5621-107), or later
- IBM Communication Server for AIX V6.1 (5765-E51), 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. The MultiSystem Manager TCP/IP agent for HP OpenView running on HP-UX requires hardware that supports:

- HP-UX V11, or later
- Hewlett Packard OpenView Network Node Manager 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 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows Server 2003 Standard
- Windows Server 2003 Enterprise
- Windows XP Professional
- Tivoli NetView for NT V7.1.4, 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 IBM Tivoli NetView for z/OS. The agent can be installed on IBM Tivoli NetView for Solaris or Hewlett Packard Network Node Manager (HP OpenView).

- 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 V7.1.4, or later
The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires hardware that supports the following:
- Solaris 9, or later
- Hewlett Packard OpenView Network Node Manager 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 8 for zSeries
- SUSE LINUX Enterprise Server 9 for zSeries
- Red Hat Enterprise Linux 3.0 for zSeries
- NetView Integrated TCP/IP Services Component (ITSC) V7.1.4, or later

MultiSystem Manager Netfinity® support: Any IBM Personal Computer, or compatible computer, as required for Netfinity Manager™ V5.0, will support the topology agent for Netfinity. The topology agent for Netfinity is part of the Netfinity product.

MultiSystem Manager Tivoli Management Region (TMR) support

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

- AIX 5.1, or later
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows Server 2003 Standard
- Windows Server 2003 Enterprise
- Solaris 9, or later
- HP-UX 11, or later
- SUSE LINUX Enterprise Server 8 (Intel)
- SUSE LINUX Enterprise Server 9 (Intel)
- SUSE LINUX Enterprise Server 9 (AMD64/EM64T)
- Red Hat Enterprise Linux AS 3 (Intel)
- Red Hat Enterprise Linux ES 3 (Intel)
- Red Hat Enterprise Linux WS 3 (Intel)
- Red Hat Enterprise Linux AS 4 (Intel)
- Red Hat Enterprise Linux ES 4 (Intel)
- Red Hat Enterprise Linux WS 4 (Intel)
- Red Hat Enterprise Linux 4.0 (AMD64/EM64T)

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.

TCP/IP for AIX Automation uses SNA communication between Tivoli NetView for AIX and Tivoli NetView for z/OS, and requires hardware that supports:
- AIX V5.1, or later
- Tivoli NetView for AIX V7.1.4, or later
- AIX NetView Service Point V1.3.3 (5621-107), or later
- IBM Communication Server for AIX V6.1 (5765-E51), or later

Software requirements: This section defines the minimum programming requirements for IBM Tivoli NetView for z/OS V5R2 and its operating environments. Specific functions of NetView for z/OS may require additional products or higher levels of the products 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 V1.4 (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 V1.4, 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 V5.2 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

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 V5.2:

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

Withdrawn functions

As previously announced, the following functions are withdrawn beginning with IBM Tivoli NetView for z/OS V5.2, and are no longer available:

- NMC Topology Console on HP-UX and AIX and NMC 3270 on HP-UX.
- NMC Topology Console on AIX and NMC 3270 on AIX.
The use of the OSI SNMP manager code provided by z/OS Communication Server for issuing SNMP commands (This is replaced by the new native NetView SNMP command support.)

The ability to write NMC server-based command exits (Existing NMC Server command exits that are provided by NetView will continue to be supported. The ability to write NMC Console-based command exits is not affected and will continue to be supported.)

Notice of planned withdrawal

IBM Tivoli NetView for z/OS V5.2 is the last release that will support the following functions:

- 1-byte console IDs
  - NetView for z/OS V5.2 is the last release that will support 1-byte console IDs. That support will be available only when running on z/OS V1.7 or earlier releases of that operating system. Instead of console IDs, NetView will use console names.
- MultiSystem Manager Topology feature for NetFinity
- 4700 Support Facility
- LPDA-1, LPDA-2 modem support
- Automated Operations Network SNA Automation SNBU support

System definition compatibility

In order to facilitate migration from a previous release, Tivoli NetView for z/OS host code will run 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

For equivalent, non-system-dependent functions, IBM Tivoli NetView for z/OS V5.2 will operate with most definition statements and command lists of the following:

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

Note: Refer to the IBM Tivoli NetView for z/OS V5.2 Installation: Migration Guide for details.

For equivalent, non-system-dependent functions, NetView for z/OS will operate 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 stated otherwise.

TCP/IP connection management

- z/OS V1.4, or later

IP packet trace formatting

- z/OS V1.4, or later

Interoperability with OMEGAMON® XE for Mainframe Networks

- IBM Tivoli OMEGAMON XE for Mainframe Networks V3.1.
- IBM Tivoli OMEGAMON Platform V3.6.0.
- Optionally: IBM Tivoli OMEGAMON DE for Distributed Systems 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 OMEGAMON Platform V3.6.0, refer to the OMEGAMON Platform and CandleNet Portal: Installing and Setting up OMEGAMON Platform and CandleNet Portal® on Windows and UNIX documentation.

For additional information on IBM Tivoli OMEGAMON DE for Distributed Systems 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.


Opening incident records from NetView

One of the following:

- For IBM Tivoli Information Management
  - IBM Tivoli Information Management for z/OS V7.1
    - Two PTFs are required: UA16790 and UA19553
  - Web Access for Information Management V1.2
  - IBM z/OS HTTP Server V5.2 or V5.3
- For Peregrine ServiceCenter
  - ServiceCenter Server 6.0
  - ServiceCenter Web client or Windows client for Database Management
  - Optionally: ServiceCenter Web client for additional management of incidents

Application-Transparent Transport Layer Security (AT-TLS)

- z/OS V1.7 (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, or later
Support for common event infrastructure

- IBM WebSphere Application Server V6.0.2 or the embedded version of IBM WebSphere Application Server — Express V6.0.2 for the appropriate operating system

For additional software requirements for IBM WebSphere Application Server V6.0.2, refer to the WebSphere documentation for the applicable platform.

**NetView Management Console, NetView 3270 Management Console**

**Topology server**

One of the following:

- AIX V5.1 (5765-E61) at recommended maintenance level 05, or later

  Additional prerequisites to run on AIX:
  - C Set++ for AIX Applications xIC.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
  - AIX Certificate and SSL Base ACME Toolkit gskta.rte 7.0.3.12, or later

  **Note:** xIC.rte, ibmcxx.ioc.rte, ibmcxx.rte, ipfx.rte, and gskta.rte are in on the IBM Tivoli NetView for z/OS V5R2 product CD.

- Windows 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows Server 2003 Standard
- Windows Server 2003 Enterprise
- SUSE LINUX Enterprise Server 8 for zSeries
- SUSE LINUX Enterprise Server 9 for zSeries
- Red Hat Enterprise Linux for zSeries 3.0

**Prerequisites for Linux on zSeries:**

- TCP/IP and ksh (Korn shell) RPM package.
- gsk6bas-6.0.-7.6.e390.rpm which is the Linux for zSeries Base Security kit (GSKit). This is available on CD.
- SUSE LINUX Enterprise Server 9 for zSeries x390 (64-bit) platform: requires RPM packages for compatibility mode.

  **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 Download area of the NetView Web site
  

**Topology console**

One of the following:

- Windows XP Professional
- Windows 2000 Professional
- Windows 2000 Server
- Windows 2000 Advanced Server
- Windows Server 2003 Standard
- Windows Server 2003 Enterprise
- SUSE LINUX Enterprise Server 8 (Intel)
- SUSE LINUX Enterprise Server 9 (Intel)
- SUSE LINUX Enterprise Server 9 (AMD64/EM64T)
- Red Hat Enterprise Linux 2.1
- Red Hat Enterprise Linux AS 3 (Intel)
- Red Hat Enterprise Linux ES 3 (Intel)
- Red Hat Enterprise Linux WS 3 (Intel)
- Red Hat Enterprise Linux AS 4 (Intel)
- Red Hat Enterprise Linux ES 4 (Intel)
- Red Hat Enterprise Linux WS 4 (Intel)
- Red Hat Enterprise Linux 4.0 (AMD64/EM64T)
- 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
  

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

For LU 6.2 connections, 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 Firefox 1.7, or later
- Microsoft Internet Explorer 6.0, or later

**NetView Web Application**

**HTTP Server and Web Application Server**

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

- Windows 2000 Server with Server Pack 4, or later
- Windows 2000 Advanced Server
- Windows Server 2003 Standard
- Windows Server 2003 Enterprise
- SUSE LINUX Enterprise Server 8 for zSeries
- SUSE LINUX Enterprise Server 9 for zSeries
- AIX 5.1 (5765-E61) at Recommended Maintenance level 05, 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 Supported Functions Download area of the NetView Web site
  
• IBM WebSphere Application Server V6.0.2 or the embedded version of IBM WebSphere Application Server — Express V6.0.2 for the appropriate operating system

For additional software requirements for IBM WebSphere Application Server V6.0.2, 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 both the English and Japanese version of the NetView Web Application, one of the following operating system and browser combinations is required:

• Sun Solaris 9, or later, with Mozilla Firefox 1.7, or later, with Java Plug-in level 1.4.2_07
• HP-UX 11, or later, with Mozilla Firefox 1.7, or later, with Java Plug-in level 1.4.2_07
• SUSE LINUX Enterprise Server 8, SUSE LINUX Enterprise 9, SUSE LINUX Enterprise 9 (AMD64/EM64T) with Mozilla Firefox 1.7, or later, with Java Plug-in level 1.4.2_07
• Red Hat Enterprise Linux 2.1, Red Hat Enterprise Linux AS 2.1, Red Hat Enterprise Linux AS 3, Red Hat Enterprise Linux ES 3, Red Hat Enterprise Linux WS 2.1, Red Hat Enterprise Linux WS 3, Red Hat Enterprise Linux AS 4, Red Hat Enterprise Linux ES 4, Red Hat Enterprise Linux WS 4, or Red Hat Enterprise Linux 4 (AMD64/EM64T) with Mozilla Firefox 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 Supported Functions Download area of the NetView Web site


Dynamic VIPA and Sysplex distributor support

• NetView Web Application prerequisites

IP Resource Discovery and Management on Linux on zSeries

• SUSE LINUX Enterprise Server 8 for zSeries
• SUSE LINUX Enterprise Server 9 for zSeries
• Red Hat Enterprise Linux 3.0 for zSeries
• NetView Integrated TCP/IP Services Component V7.1.4

Launching TBSM from NMC or NMC from TBSM
• 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

OS/390 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.

Beep/pager support

• IBM Netfinity for OS/2® V5.0, or later (if using the IBM-supplied sample for beeper/pager requests)

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 (NPM) alerts

• NPM 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:

• RODM 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 (TMR)
- 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 V5.1 (5765-E61) at recommended maintenance level 05, or later
  - Windows 2000 Server
  - Windows 2000 Advanced Server
  - Windows Server 2003 Standard
  - Windows Server 2003 Enterprise
  - Solaris 9, or later
  - HP-UX 11, or later
  - SUSE LINUX Enterprise Server 8
  - SUSE LINUX Enterprise Server 9
  - SUSE LINUX Enterprise Server 9 (AMD64/EM64T)
  - Red Hat Enterprise Linux AS 3 (Intel)
  - Red Hat Enterprise Linux ES 3 (Intel)
  - Red Hat Enterprise Linux WS 3 (Intel)
  - Red Hat Enterprise Linux AS 4 (Intel)
  - Red Hat Enterprise Linux ES 4 (Intel)
  - Red Hat Enterprise Linux WS 4 (Intel)
  - Red Hat Enterprise Linux 4 (AMD64/EM64T)

Commands from IBM Tivoli NetView for z/OS to TEC
- Multisystem Manager 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 V5.1 (5765-E61) at recommended maintenance level 05, or later
  - Tivoli NetView for AIX V7.1.4, or later
  The agent can communicate with IBM Tivoli NetView for z/OS via SNA or TCP/IP. If you are using SNA to communicate between the MultiSystem Manager TCP/IP agent and IBM Tivoli NetView for z/OS, the following are also required:
  - AIX NetView Service Point V1.3.3 (5621-107), or later
  **Note:** If V1.2.2 is already installed, PTF U473211 provides an upgrade to V1.3.3.
  - IBM Communication Server for AIX V6.1 (5765-E51), 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 V11, or later
  - Hewlett Packard OpenView Network Node Manager 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:
  - One of the following:
    - Windows 2000 Professional
    - Windows 2000 Server
    - Windows 2000 Advanced Server
    - Windows Server 2003 Standard
    - Windows Server 2003 Enterprise
    - Windows XP Professional
  - IBM Tivoli NetView for Windows V7.1.4, 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 V7.1.4, or later
  - The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires:
Solaris 9, or later
Hewlett Packard OpenView Network Node Manager for Solaris 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 8 for zSeries
- SUSE LINUX Enterprise Server 9 for zSeries
- Red Hat Enterprise Linux 3.0 for zSeries
- NetView Integrated TCP/IP Services Component (ITSC) V7.1.4, or later

Topology feature for Netfinity
- Netfinity Manager V5.0 running on OS/2 or Windows NT
  The topology agent for Netfinity is part of the Netfinity Manager product.
  Note: The agent is not part of the Netfinity Director product and is not supported there.
- Windows NT
  - TCP/IP connectivity
- OS/2
  - Communications Server for OS/2, Personal Communications for OS/2 or Communications Manager as per the requirements for Netfinity Manager V5.0 SNA communication

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.

TCP/IP for AIX Automation
TCP/IP for AIX Automation uses SNA communication between Tivoli NetView for AIX and IBM Tivoli NetView for z/OS and requires:
- AIX V5.1, or later
- Tivoli NetView for AIX V7.1.4, or later
- AIX NetView Service Point V1.3.3 (5621-107), or later
  If V1.2.2 is already installed, PTF U473211 provides an upgrade to V1.3.3
- IBM Communication Server for AIX V6.1 (5765-E51), or later

User group requirements
This announcement satisfies or partially satisfies requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe, Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc. Requirements satisfied include:

MR0206023946 NetView should fold up all MVS & VTAM+ commands Insulate Case-sensitive Commands from OVERRIDE NETVASIS
MR1205007328 NLDM-like diagnostic tool for TCP/IP or TCP/IP Connection Management
MR0219045735 or NetView Message Interception and Modification MVS Message Revision
In addition, the following customer requirements are satisfied or partially satisfied:

MR00067840 Allow DSIPRT PGM to filter by date/time or Allow date/time parameters for DSIPRT
MR00070495 or NETCONV STOP from different task to NETCONV START
or Predefined and Automatic NetConv Sessions
MR00075106 or NMC should support Double Right Click Mouse as NGMF
or Customize double click for NMC views
MR00075113 or NMC Data 1, Data 2 and so forth should be customisable fields
or NMC Data 1, Data 2, and so forth
MR00075848 or NETCONV sessions should be pre-definable and automatic
or Predefined and Automatic NetConv Sessions
MR0105042653 Passwords in NetView are always upper case. Need to also make it Lowercase
or Mixed Case Password Support
MR0117022616 or CNMSTYLE re-naming of automatic operators
or Make default automation table more useable
MR0206023946 or NetView should fold up all MVS & VTAM+ commands
or Upper Case Commands
MR0219045735 or NetView Message Interception and Modification
or Upper Case Commands
MR0214054929 or New NetView Commands should have a Set Naming Standard
or Eliminate the need for DSICMD Migration members
MR0221012313 or Scope Check NPDA SWRAP AL command
or Provide more Error Detail for CNM461I
MR0304036421 or CONFICTING KEYWORDS Message in NetView
MR032102153 or NLDM database purge options
MR0322004117 or NLDM Purge Exception Lists
MR0322004117 or Graphical Interface for CS/390 IP Tracing
or Packet Trace Formatter
MR0407001132 or Sequence Numbers Needed for Automation Table Members
or Make default automation table more useable
MR0425031527 or NetView’s NLDM record IP Traffic
or Packet Trace Formatter
MR0529026657 or Extend Description for CNM342I
MR0607022611 or S/390® NetView NLDM does not pass sense codes to SMF/external logs
MR07180024945 or NetView should deliver DSICMD with ALIAS modules res=yes (performance)
MR0810011221 or Eliminate need for DSICMD Migration Members
MR0818005742 or Document Netview, MVS, and VTAM commands that are case insensitive
or Upper Case Commands
or Netview ILOG command improvement
ILOG Command Improvement

205-246
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 November 11, 2005. 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 will be shipped IBM Tivoli NetView for z/OS 5.1.
- Orders entered with a scheduled shipment date after planned availability will be shipped IBM Tivoli NetView for z/OS 5.2. 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 numbers.

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

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

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5697ENV</td>
</tr>
</tbody>
</table>

**Basic license:** To order a basic license, specify the program number and feature number 9001 for asset registration. Specify the feature number of the desired distribution medium shown below.

**Entry support license (ESL):** To order an ESL license, specify the program number, and the applicable ESL OTC feature number. Also specify the feature number of the desired distribution medium.

Specify the applicable ESL OTC license option.

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
<th>License option/ pricing metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S00WM20</td>
<td>Basic OTC, Entry Support License</td>
</tr>
<tr>
<td>S00WLL0</td>
<td>License Certificate</td>
</tr>
</tbody>
</table>

ESL machines can be determined by referring to the IBM Entry End User/390 Attachment (Z125-4379).
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.

Entitlement identifier | License option/pricing metric
---|---
S00WM20 | Basic MLC, PSLC below 3 MSU
S00WLLO | Basic MLC, PSLC AD
S00WLLO | SYSUSGREG NC, PSLC AD
S00WLLO | License Certificate

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.

Entitlement identifier | License option/pricing metric
---|---
S00WM20 | Basic MLC, Variable WLC
S00WLLO | Workload Registration, Variable WLC
S00WLLO | License Certificate

Entry Workload License Charge (EWLC) Basic License
To order a basic license, specify the program number and the quantity of MSUs.

Entitlement identifier | License option/pricing metric
---|---
S00WM20 | Basic MLC, Entry WLC
S00WLLO | License Certificate

Growth opportunity license charge (GOLC): To order a basic license, specify the program number and the correct level.

Specify the GOLC monthly license option.

Entitlement identifier | License option/pricing metric
---|---
S00WM20 | Basic MLC, GOLC
S00WLLO | License Certificate

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

Specify the zELC monthly license option.

Entitlement identifier | License option/pricing metric
---|---
S00WM20 | Basic MLC, zELC
S00WLLO | License Certificate

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</th>
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<tbody>
<tr>
<td>S00WLWX</td>
<td>U.S. English</td>
<td>3480 Tape Cartridge</td>
</tr>
<tr>
<td>S00WP42</td>
<td>Japanese</td>
<td>3480 Tape Cartridge</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.

Example: If publications are not desired for the initial order, specify feature number 3470 to ship media only. For future updates, specify feature number 3480 to ship media updates only. If, in the future, publication updates are required, order an MES to remove feature number 3480; then, the publications will ship with the next release of the program.

Feature description

- Delivery w/o Publications (for this specific order only)
- Delivery w/o Machine Readable Material
- Delivery w/o Publications for this product (including follow ons)

Delivery options feature description

Internet electronic delivery

Other option types used in ESW:
- Capacity Mode Options
- Certificate Options
- License Management Options
- Maintenance Options
- Partition Options
- Package Options
- Preload Options
- Sub-capacity Options

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>GI10-3194</td>
<td>IBM Tivoli NetView for z/OS English Program Directory</td>
</tr>
<tr>
<td>GI10-3243</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>
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<tr>
<td>LCD7-0828</td>
<td>IBM Tivoli NetView for z/OS Volume 2 CD-ROM (English)</td>
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<tr>
<td>LCD7-0829</td>
<td>IBM Tivoli NetView for z/OS Tivoli Enterprise Portal Agent CD-ROM</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>
<td>SC31-8873</td>
<td>IBM Tivoli NetView for z/OS V5R2 Installation: Migration Guide</td>
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For more information on zELC pricing, refer to Software Announcement 202-036, dated February 19, 2002.
The following softcopy publications are shipped on the soft copy CD-ROM, LK2T-6175, Tivoli NetView for z/OS Online Library.

**Form number** | **Publication**
--- | ---
SC31-8854 | Administration Reference
SC31-8871 | AON Customization Guide
GC31-8851 | AON User’s Guide
SC31-8855 | Application Programming Guide
SC31-8853 | Automation Guide
SC31-8857 | Command Reference Vol I
SC31-8858 | Command Reference Vol II
SC31-8859 | Customization Guide
SC31-8860 | Programming: Assembler
SC31-8863 | Programming: Pipes
SC31-8861 | Programming: PL/I and C
SC31-8862 | Programming: REXX and NetView
SC31-8864 | Data Model Reference
LY43-0093 | Troubleshooting Guide
SC31-8874 | Installation: Configuring Additional Components
SC31-8875 | Installation: Configuring Graphical Components
SC31-8866 | Messages and Codes
CG31-8850 | MultiSystem Manager User’s Guide
SC32-9381 | NetView Web Application User’s Guide
GC31-8852 | NMC User’s Guide
SC31-8865 | RODM and GMFHS Program Guide
SC31-8870 | Security Reference
SC31-8868 | SNA Topology Manager Implementation Guide
GC31-8849 | NetView User’s Guide

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.

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**

Most product media is shipped only via customized offerings (that is, CBPDO, ServerPac, SystemPac®). Non-customized items (CDs, diskettes, source media, and media kits) will continue to be shipped via the stand-alone product.

**Terms and conditions**

The terms for IBM Tivoli NetView for z/OS, as previously announced in Software Announcement 202-051, dated March 5, 2002, 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.

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IBM Tivoli NetView for z/OS (NetView) includes a limited use copy of the IBM DB2 Universal Database (DB2 UDB). You are authorized to install and use one copy of these components only in association with your licensed use of NetView for the storage and management of data used and generated by NetView, and not for other data management purposes. DB2 UDB components are to be used only by the internal components of NetView. For example, DB2 UDB components can be used as a
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**IBM Operational Support Services — SupportLine:** Yes

**Entry Workload License Charge (EWLC):** A revised contract (Attachment for zSeries z800 Software License Charges, Z125-6587-04) is in place for Entry Workload License Charge (EWLC). This revised contract must be signed by the customer.

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**Prices**

Prices for IBM Tivoli NetView for z/OS V5.2 remain the same and are unaffected by this announcement.

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