IBM Tivoli NetView for z/OS V5.1: Addressing the Challenges of End-to-End TCP/IP Management

Overview

Tivoli® NetView® for z/OS™ provides state of the art management for your critical networked computing infrastructure. As your network has evolved over the years, so has NetView. We’ve been there to manage what you need to manage.

TCP/IP Management

As you deploy TCP/IP for your z/OS systems, NetView for z/OS is there to manage that deployment. There is no requirement to learn a new network management tool. NetView provides the management function to allow you to deploy TCP/IP with all its sophisticated z/OS capabilities including Dynamic Virtual IP Addressing (DVIPA) across virtually any sysplex.

Easier to install and customize

Based on our customers’ feedback, the style sheet introduced in NetView V1R4 is expanded to cover most of the components of a NetView install. In addition, packaging options are consolidated into one orderable entity in V5R1. These enhancements can help you utilize your system programming skill set more effectively.

NetView Web Application

The Web Console in NetView for z/OS V5R1 has been redesigned, 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 and managing SNMP based resources.

Added Linux Support

NetView for z/OS V5R1 now supports Linux on IBM @server zSeries as an additional platform. The availability of NetView functions, such as IP resource discovery, SNMP services and the NetView Management Console topology server, on this new platform, can give you the flexibility to consolidate your distributed management footprint, and to take further advantage of your zSeries investment.

Key Prerequisites

One of either:

- OS/390® V2R10 (5647-A01)
- z/OS (5694-A01), Release 1, or later

For a detailed description of the hardware and software prerequisites, refer to the Technical Information section.

Planned Availability Date

- March 29, 2002
- August 30, 2002 (Japanese)

At a Glance

IBM Tivoli NetView, V5R1 provides enhancements in the following areas and more:

- TCP/IP Management
  - Management of complex environments with support for DVIPA
  - Monitor connections to any application on an OS/390 or z/OS
- NetView Web Application
  - Easier to use Web interface
  - SNMP services available from a Web console
- Time to Value
  - Netview style sheet can help achieve simpler customization
- Increased platform flexibility through Linux support for:
  - IP resource discovery and management (Linux on zSeries)
  - NMC Topology Server (Linux on zSeries)
  - NMC Topology Console (Linux on Intel®)

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**Description**

**Advanced TCP/IP And SNMP Management**

Building on the TCP/IP and SNMP management capabilities in previous releases, NetView for z/OS V5R1 introduces the following capabilities:

- **Management for Dynamic Virtual IP Addressing (DVIPA)** from the NetView Web Console — NetView for z/OS V5R1 dynamically discovers DVIPAs for all defined TCP/IP stacks, and for each DVIPA configured for a Communication Server for OS/390 or z/OS Communication Server TCP/IP stack, it provides configuration and status information. For DVIPAs participating in the sysplex distributor function, information about the distributor and associated target stack is displayed, including the target stack’s XCF IP addresses. TCP/IP connection data for a DVIPA is also provided.

- **IP Resource Discovery and Management on Linux on zSeries** – This new process runs on Linux on zSeries and provides function equivalent to the MultiSystem Manager TCP/IP agent running on Tivoli NetView for AIX® and Windows NT®.

- **Ping and SNMP commands, as native NetView commands** — Ping and SNMP commands, including SNMPv3 functionality, are now implemented in the NetView address space rather than UNIX® System Services (USS). This improves performance and eliminates the need for the system programmer to set up USS for these functions.

- **TCP/IP Connection Monitoring and Thresholding**
  - Automation can now monitor connections to any application (any socket) on an OS/390 or z/OS host. For those connections, policy-based thresholds can be set to detect if:
    - No activity has occurred over a specified time period
    - A minimum number of bytes has not been sent over a specified time period
    - A maximum number of bytes sent has been exceeded over a specified period of time
  - This enables the management of printers and other devices connected via TCP/IP.
  - NetView System Programmers can define one or more responses to thresholds being reached or exceeded:
    - No action, ignore the instance
    - Generate a NetView message and notify the appropriate personnel as specified in NetView notification policy (for example, e-mail, pager, alert, TEC event)
    - Break the connection

**NetView Web Application**

NetView for z/OS V5R1’s Web interface has been completely redesigned, making it easier for operators to find the information that they require. The Web interface provides the user with the flexibility to assess the status of the network from a Web browser. The enhanced Web console features include:

- A new Web interface with an up-to-date look and feel
- Exploiting the Java™ Servlet 2.2 API — Using WebSphere® Application Server or a NetView-provided Java-based servlet engine allows NetView to take full advantage of emerging industry standards to provide new Web-based functions more quickly. A web.xml editing tool is also provided to simplify configuration of the WebSphere Application Server or NetView-supplied servlet engine.

- **SNMP services** — From their Web browsers, operators can launch the Real-Time Poller, MIB Browser, and SNMP command dialogs.
  - Over 30 commonly used MIBs are shipped with NetView. In addition, frequently used MIB variables are grouped for easy access in the MIB browser.
  - A Real-Time Poller enables the operator to select an SNMP-managed resource, poll performance and other data for the resource, and display the poll reply data in a customizable graphical format.
  - SNMP command dialogs enable customers to easily build and issue SNMP commands such as Get, Get Next, Set, and so forth.
  - Diagnostic trace management: To help resolve TCP/IP problems across multiple domains from one focal point NetView, users can:
    - Start and stop component and packet traces
    - Display active traces
    - Display trace status

- **TCP/IP Stack Management** — SNMPView assists the user in managing a TCP/IP stack by displaying detailed stack information, including connections and connection details.

- **Web Security** — Access to NetView through its Web interface is authenticated through the operator’s NetView user ID and password. Authorization for specific functions is provided through standard NetView-based security.

**NetView Management Console (NMC) Graphics Enhancements**

The following new or enhanced capabilities are available from the NMC:

- **Linux Support** — The NMC Topology Server has been ported to Linux on zSeries, and the NMC Topology Console to Linux on Intel platforms. This provides additional supported platforms as well as the ability to run the NMC Topology Server on the mainframe.

- **Tivoli Business Systems Manager (TBSM) can now be launched in context from the NMC** — Likewise, the NMC can be launched in context from TBSM. This increased interoperability between NetView and TBSM allows operators to quickly see which business systems are affected by malfunctioning network or system resources, and conversely, to perform more detailed problem determination on network or system resources that are degrading a business system. This interface is also available to allow other vendors to provide applications to launch NMC in context.

- **Resource-specific commands for TCP/IP resources** — Commands that are specific to TCP/IP resources can now be defined through the Command Profile Editor. This provides for the inclusion of these commands in context (pop-up) menus that appear as the result of right clicking on a selected resource.

- **The ability to run the NMC Topology Server and the TBSM Task Server on the same workstation**
NMC Security Enhancements
- Automatic logging of suppressed operator commands — This provides increased customer control over who is allowed to submit TSO commands from NetView.
- Command Authorization Checking in context — A new command list function is available for turning on and off command authorization checking within a command list. This helps ensure that operators are allowed to execute sensitive, customer-selected commands only within the context of specified command lists.
- Time to Value

Enancements in packaging, installation and customization mean simpler ordering and can help reduce the time to value:
- Simpler customization — The NetView style sheet, CNMSTYLE, was introduced in NetView for OS/390 V1R4 to simplify configuration by providing a central location for many customizable initialization parameters. NetView for z/OS V5R1 further reduces the time needed for deployment by:
  - Incorporating all DSIDMN definitions and common TCP/IP definitions into the style sheet
  - Adding Tower selection options for the hardware monitor, session monitor, and 4700 Support Facility
  - Including MultiSystem Manager initialization parameters into the style sheet
- Streamlined Packaging
  - Starting with V5R1, packaging options are consolidated into one orderable entity. This helps simplify the ordering and installation processes and reduces documentation.
  - The RODM and AON datasets have been consolidated into the NetView datasets.
- Conditions leading to normal non-zero return codes in several product installation steps have been eliminated — It is no longer necessary to search through pages of job output to verify that no problems were encountered in the installation process.

Other V5R1 enhancements include:
- Access to NetView publications from a NetView 3270 console — This provides easy operator access to NetView manuals from any console that supports the display of PDF-formatted documents.
- Pipe enhancements
  - A new PIPE stage, PERSIST, enables a programmer to specify a rule for action to be taken on correlated messages after the pipeline ends.
  - EDIT orders can now read and set the automation control flags in messages, convert readable date/time text to store clock values, and reverse the order of lines in a multi-line message.
  - DIVERT is a new stage that gives programmers more control over when and where messages flow in the pipeline.
- Asynchronous VIEW Panel processing — REXX programmers can now create VIEW panels that can be updated on an event or timed basis. These dynamic updates do not interfere with operator’s typing or entering data on the VIEW display.
- Session Monitor enhancements
  - Cross-domain timeout removed from Session Monitor. When requesting session information from a remote NetView domain about an unknown session, the operator will now get an immediate response.
  - Session Monitor performance enhancements.
- Mixed case for Automation Tables — The NetView Automation language now supports mixed case. This reduces the likelihood of typographical errors, makes the automation code easier to read, and therefore potentially easier to maintain.
- Enhanced e-mail support — The NetView e-mail service now dynamically submits e-mail to SMTP instead of using batch jobs. This increases the performance and reliability of using e-mail for notification purposes.
- Program-to-Program Interface (PPI) problem determination enhancements — When displaying buffer and trace information for the PPI, additional information is provided, including the address space ID of the PPI receiver. PPI trace entries also include the addresses of the ASCB and TCB of the PPI requester and receiver (if different from the requestor). This additional information makes for easier diagnosis of PPI-related problems.
- Cross-Domain Timer enhancements — The TIMER command has been enhanced to provide customers the ability to view and manage timers for any NetView domain from a central NetView using native NetView services. Cross-domain support is no longer limited to a sysplex environment and no longer requires System Automation for OS/390.
- Event/Automation Service serviceability enhancements — The OS/390 Event/Automation Service (E/AS) provides additional error messages and problem determination aids to enable better problem resolution for TCP/IP connectivity problems. The DISPLAY STATUS command has been enhanced to show more granular status relating to TCP/IP connectivity for the event adapters. A new SETTINGS command now provides feedback on the current configuration settings being used by the service.

The IBM Tivoli NetView for z/OS V5R1 Installation: Migration Guide has been rewritten and expanded.
Multi-System Manager (MSM) enhancements
- Router Fault Isolation: Exploiting the fault isolation support from Tivoli NetView 6.0.3 and later, NetView for z/OS V5R1 provides improved problem isolation for router-connected resources.
- Trap Routing enhancements
  - Hot Backup enablement: NetView now provides the ability to forward status-reporting traps from a TCP/IP agent to multiple hosts, thus enabling customers to maintain topology and status in both a production and hot backup environment.
  - Trap filtering: Traps can now be filtered at the workstation to avoid sending unnecessary traps to a NetView host. This can conserve bandwidth by forwarding the right traps to the right hosts.

Accessibility by People with Disabilities
The NetView for zOS V5R1 3270 interface is accessible to people with disabilities provided the 3270 emulator software used is accessible.

Euro Currency
This program is not impacted by euro currency.

Product Positioning
Tivoli NetView for z/OS V5R1 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. NetView as a standalone management application manages TCP/IP resources and SNA resources, and provides automation facilities to automate any network or system event.

Examples of products that work with NetView for z/OS are System Automation for OS/390 (5645-006) and Tivoli NetView (5698-NWV). NetView provides the automation services and graphical topology services for System Automation for OS/390, the strength of which is OS/390 and z/OS system automation. Tivoli NetView for z/OS V5R1 provides integrated network automation.

Also, Tivoli NetView for z/OS V5R1 can receive discovered IP resource topology from Tivoli NetView (5698-NWV) running on a UNIX or Windows NT platform or the IP Resource Discovery and Management on Linux on zSeries to show an enterprise-wide view of the network, track resource status, and issue commands to those resources.

Tivoli NetView for z/OS V5R1 can also forward collected z/OS management information to other management applications. For example, OS/390 or z/OS messages and/or 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 V5R1 provides management services to Tivoli Business Systems Manager for its handling of OS/390 and z/OS subsystems such as CICS®, DB2®, and IMS™.

With its open application programming interfaces (APIs), NetView for z/OS can be an integration point for both S/390® 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 an OS/390 or z/OS management endpoint.

Hardware and Software Support Services

SmoothStart™ /Installation Services
IBM SmoothStart and Installation Services are not provided.

Reference Information
- Software Announcement 201-046, dated February 27, 2001
- Software Announcement 297-083, dated March 25, 1997
- Software Announcement 298-194, dated June 9, 1998
- Software Announcement 299-346, dated November 16, 1999
- Software Announcement 200-355, dated October 3, 2000

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IBM US
Announcement
Supplemental Information
March 5, 2002

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http://www.Tivoli.com/services/education/schedules/

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

Technical Information

Specified Operating Environment

Hardware Requirements: IBM Tivoli NetView® for z/OS V5R1 runs in a virtual storage environment on any IBM system configuration with sufficient storage that supports OS/390® or z/OS™.

NetView Management Console, NetView 3270 Management Console

Topology Server

- Any hardware that supports one of the following operating systems:
  - AIX® 4.3.3 (5765-C34)
  - AIX 5.1 or later
  - Windows NT® 4.0
  - Windows® 2000
  - SuSE Linux Enterprise Server for S/390® version 7.0 at kernel level 2.2.16 (English only)
  - SuSE Linux Enterprise Server 7 for S/390 and zSeries at kernel level 2.4.7
- 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:
  - AIX 4.3.3. (5765-C34)
  - AIX 5.1 or later
  - Windows NT 4.0
  - Windows 2000
  - HP-UX 11, or later (English Only)
  - Solaris 2.8 or later
  - Red Hat 7.1 or SuSE 7.1 distribution of Linux (English Only)
- 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 IBM WebSphere® Application Server V4.0, Advanced Edition or the Jetty Web Server.

- AIX 4.3.3 (5765-C34)
- AIX 5.1 or later
- Windows NT 4.0 Server
- Windows 2000 Server
- SuSE Linux Enterprise Server for S/390 Version 7.0 at kernel level 2.2.16 (English only)
- SuSE Linux Enterprise Server 7 for S/390 and zSeries at kernel level 2.4.7

Note: At this time, WebSphere Application Server V4.0, Advanced Edition, does not have Japanese support on SuSE Linux Enterprise Server 7 for S/390 and zSeries.

The install footprint is 68 MB of fixed disk space.

For additional hardware requirements for IBM WebSphere Application Server V4.0, Advanced Edition, refer to the WebSphere documentation for the applicable platform.

Jetty is an Open Source HTTP Server and Servlet Container that is packaged with Tivoli NetView for z/OS V5R1. Jetty requires the following in addition to the base operating system requirements:

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

Web Browsers

Any hardware that runs one of the following operating systems with a supported Web browser:

- AIX 4.3.3. (5765-C34)
- AIX 5.1
- Windows 2000

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• Windows NT 4.0
• HP-UX 11 or later (English Only)
• Solaris 2.8 or later
• Red Hat 7.1 or SuSE 7.1 distribution of Linux (English Only)
• Red Hat 7.2 or SuSE 7.2 distribution of Linux

**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 Version 2 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 4.3.3.10 (5765-C34), or later
- Tivoli NetView for AIX 6.0.3 (5698-NVW), 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 1.3.3 (5621-107)
- IBM Communication Server for AIX 6.1 (5765-E51)

**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 V5R1. The MultiSystem Manager TCP/IP agent for HP OpenView running on HP-UX requires hardware that supports:

- HP-UX Version 10 Release 20, or later
- Hewlett Packard Network Node Manager (HP OpenView) Version 5 Release 1, or later

**Windows NT and Windows 2000**

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 V5R1. The MultiSystem Manager TCP/IP agent for Tivoli NetView for Windows requires hardware that supports the following:

- Windows NT Version 4 or Windows 2000
- Tivoli NetView for NT 6.0.3 (5698-NVW), 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 V5R1.

- The MultiSystem Manager TCP/IP feature for Tivoli NetView for Solaris requires hardware that supports the following:
  - Solaris Version 2 Release 6, or later
  - Tivoli NetView for Solaris 6.0.3 (5698-NVW), or later
- The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires hardware that supports the following:
  - Solaris Version 2 Release 6, or later
  - Hewlett Packard Network Node Manager (HP OpenView) Version 5 Release 1, or later

**Multisystem Manager Netfinity® Support:** Any IBM Personal Computer, or compatible computer, as required for Netfinity Manager™ Version 5.0 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 4.3.3.10 (5765-C34), or later
- Windows NT 4.0
- Windows 2000
- Solaris 2.6, or later
- HP-UX 10.20, or later

**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- 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 4.3.3.10 (5765-C34), or later
  - Tivoli NetView for AIX 6.0.3 (5698-NVW), or later
  - AIX NetView Service Point 1.3.3 (5621-107)
  - IBM Communication Server for AIX 6.1 (5765-E51)

**Software Requirements:** This section defines the minimum programming requirements for IBM Tivoli NetView for z/OS V5R1 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 OS/390 or 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**

- OS/390 Version 2 Release 10 (5647-A01) or z/OS (5694-A01)
- All functions related to the ACF/NCP program require:
  - ACF/NCP Version 4 Release 3.1 (5668-854), or later
- All functions using TCP/IP communications from OS/390 or z/OS require:
  - OS/390 Version 2 Release 10 IP Services or z/OS IP Services

**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 V5R1 can communicate with the following, at the listed system’s level of capabilities:

- NetView Version 2 Release 3 for VM/ESA®, and VSE/ESA™
- NetView Version 3 Release 1 for MVS/ESA™
- TME 10™ NetView for OS/390 Version 1 Release 1
- TME 10 NetView for OS/390 Version 1 Release 2
- Tivoli NetView for OS/390 Version 1 Release 3
- Tivoli NetView for OS/390 Version 1 Release 4
- IBM Tivoli NetView for z/OS V5R1

**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 V5R1:

- NetView Version 2 Release 3 for VM/ESA, and VSE/ESA
- NetView Version 3 Release 1 for MVS/ESA
- TME 10 NetView for OS/390 Version 1 Release 1
- Tivoli NetView for OS/390 Version 1 Release 2
- Tivoli NetView for OS/390 Version 1 Release 3
- IBM Tivoli NetView for z/OS V5R1

**Withdrawn Functions**

The following functions were withdrawn beginning with IBM Tivoli NetView for OS/390 Version 1 Release 3 and are no longer available:

- NetView Installation and Administration Facility/2 (NIAF/2)
- Automated Operations Network (AON) Reporting Facility
- AON LAN RTAP

The following functions were withdrawn beginning with Tivoli NetView for OS/390 Version 1 Release 4 and are no longer available:

- NetView Graphic Monitor Facility (NGMF)
- MultiSystem Manager LAN Management Utilities (LMU) agent

Beginning with IBM Tivoli NetView for z/OS V5R1, the following functions are no longer supported on OS/2® or Windows 95 and 98 but continue to be available and supported on other platforms where they were previously available:

- OS/2
  - NetView Management Console (NMC) topology server and console
  - NetView 3270 Management Console (NMC 3270)
  - Visual BLDVIEWS (VBV)
  - APPN® Topology and Accounting Agent (APPNTAA)
- Windows 95 and Windows 98
  - NMC topology console
  - NMC 3270

The following functions are withdrawn beginning with IBM Tivoli NetView for z/OS V5R1 and are no longer available:

- MultiSystem Manager ATM Support
- MultiSystem Manager NetWare support
- Automated Operations Network LAN Automation
- NetView Management Console Command Profile Editor GUI (The NMC CPE Batch Utility remains.)
- APPN Accounting Manager
- The TCP/IP discovery sample which previously ran on z/OS and OS/390 in UNIX System Services (USS) (Note: This sample is available for downloading from the Unsupported Tools page of the NetView Web site at:
  
  http://www.tivoli.com/nv390/

  It is replaced in the product by the new IP resource discovery and management function on Linux on IBM @server zSeries.)
- Launch of Tivoli Inventory from the NMC topology console. This is available for downloading from the Unsupported Tools page of the NetView Web site at:
  
  http://www.tivoli.com/nv390/

- Command authority checking using the NetView scope-of-command function (Command authority checking using either a NetView command authority table or an SAF product such as IBM SecureWay® Security Server for z/OS and OS/390 RACF® continues to be supported.)
- Span-of-control defined in members of the VTAMLST parameter dataset of Communication Server for OS/390 or z/OS Communication Server (Resources and NMC views subject to span-of-control authorization are now defined only in a NetView span table in the NetView DSIPARM dataset.)
- Support for the Katakana character set
- The -jsnmp option of the NVSNMP command
- Java™ Application Server (JAS)

The Java Application Server provided for starting, stopping, and checking the status of the following services in a Unix System Services (USS) environment:

- SNMPSRVC
- POLLSRVC
For equivalent, non-system-dependent functions, NetView

- Tivoli NetView for OS/390 Version 1 Release 4
- Tivoli NetView for OS/390 Version 1 Release 3
- TME 10 NetView for OS/390 Version 1 Release 2
- TME 10 NetView for OS/390 Version 1 Release 1

For equivalent, non-system-dependent functions, IBM
Tivoli NetView for z/OS V5R1 will operate with the NMC
Topoloy Server and Console from the following earlier
releases:

- TME 10 NetView for OS/390 Version 1 Release 2
- Tivoli NetView for OS/390 Version 1 Release 3
- Tivoli NetView for OS/390 Version 1 Release 4

For equivalent, non-system-dependent functions, IBM
Tivoli NetView for z/OS V5R1 will operate with the NMC
topology console.

Notice of Planned Withdrawal

IBM Tivoli NetView for z/OS V5 R1 is the last release that
will support the following functions:

- NMC Topology Console on HP-UX and NMC 3270 on
  HP-UX
- The use of the OSNMP 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 for customers 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.)

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:

- TME 10 NetView for OS/390 Version 1 Release 2
- Tivoli NetView for OS/390 Version 1 Release 3
- Tivoli NetView for OS/390 Version 1 Release 4

For equivalent, non-system-dependent functions, IBM
Tivoli NetView for z/OS V5R1 will operate with all
definition statements and command lists of the following:

Note: Refer to the IBM Tivoli NetView for z/OS V5R1

- NetView Version 2 Release 3 for VM/ESA, and
  VSE/ESA
- NetView Version 3 Release 1 for MVS/ESA
- TME 10 NetView for OS/390 Version 1 Release 1
- TME 10 NetView for OS/390 Version 1 Release 2
- Tivoli NetView for OS/390 Version 1 Release 3
- Tivoli NetView for OS/390 Version 1 Release 4

For equivalent, non-system-dependent functions, NetView
for z/OS will operate with the REXX procedures of
NetView Version 2 and Version 3 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 re-compile 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.

NetView Management Console, NetView 3270
Management Console

Topology Server

One of the following:

- AIX 4.3.3 (5765-C34) at Recommended Maintenance
  level 09 or later
- AIX 5.1 (5765-E61) at Recommended Maintenance
  level 01 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 V5R1
product CD.

- Windows 2000 with Service Pack 2 or later
- Windows NT 4.0 with Service Pack 6a or later
- SuSE Linux Enterprise Server for S/390 version 7.0 at
  kernel level 2.2.16 with TCP/IP and pdksh Korn shell
  RPM package installed (English only. Japanese not
  supported.)
- SuSE Linux Enterprise Server 7 for S/390 and zSeries
  at kernel level 2.4.7 with glibc at level 2.2.4

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:

http://www.tivoli.com/nv390/

Topology Console

One of the following:

- AIX 4.3.3 (5765-C34) at Recommended Maintenance
  level 09 or later with TCP/IP installed
- AIX 5.1 (5765-E61) at Recommended Maintenance
  level 01 or later with TCP/IP installed
- Windows NT 4.0 with Service Pack 6a or later
- Windows 2000 with Service Pack 2 or later
- Red Hat 7.1 or SuSE 7.1 Linux distributions on 32-bit
  IA-32 Intel® Architecture (for example, Pentium® III
  and Pentium 4 processors) (English only. Japanese not
  supported.)
- Red Hat 7.2 or SuSE 7.2 Linux distributions on 32-bit
  IA-32 Intel Architecture
  - For Red Hat, only the Gnome desktop with Sawfish
    windows manager that is shipped with Red Hat is
    supported.
  - For SuSE, only the K Desktop Environment (KDE)
    that is shipped with SuSE is supported.

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:

http://www.tivoli.com/nv390/

- Solaris 2.8 or later with TCP/IP installed. The following patches are also required: 108940-32, 108652-37, 108921-13
- HP-UX 11, or later with TCP/IP installed (English only. Japanese not supported.)

Since the NMC Topology Console uses Java, patches are needed to support the Java Runtime Environment. The latest list of patches can be found at HP’s 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, Version 6.1 (5765-E51)

Windows NT and Windows 2000
- IBM Communications Server for Windows NT 6.1.1

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:

- Netscape 6.0 or later
- Microsoft Internet Explorer 5.5 or later

NetView Web Application

HTTP Server and Web Application Server

- One of the following operating systems with TCP/IP installed:
  - Windows NT 4.0 Server with Service Pack 6a, or later
  - Windows 2000 Server with Service Pack 2, or later
  - AIX 4.3.3 (5765-C34) at Recommended Maintenance level 09, or later
  - IBM AIX Version 5.1 (5765-E61) at Recommended Maintenance level 01, or later
  - SuSE Linux Enterprise Server for S/390 Version 7.0 at kernel level 2.2.16 with pdksh Korn shell RPM package installed (available on SuSE’s distributed media, CD1) (English Only)
  - SuSE Linux Enterprise Server 7 for S/390 and zSeries at kernel level 2.4.7 with glibc at level 2.2.4. (English and Japanese)
  - For a Japanese system, GNU Awk 3.1.0 is also required

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:

http://www.tivoli.com/nv390/

- One of the following:
  - IBM WebSphere Application Server V4.0, Advanced Edition for the appropriate operating system

Note: At this time, WebSphere Application Server V4.0, Advanced Edition, does not have Japanese support on SuSE Linux Enterprise Server 7 for S/390 and zSeries

For additional software requirements for IBM Websphere Application Server V4.0, Advanced Edition, refer to the WebSphere documentation for the applicable platform.

- The Jetty Web Server
  Jetty is an Open Source HTTP Server and Servlet Container from Mort Bay Consulting that is packaged with IBM Tivoli NetView for z/OS V5R1.

- Supported locales for the Japanese version of the NetView Web Application
  - For Windows, SJIS
  - For AIX, ja_JP (EUC) and Ja_JP (PC or IBM-943)
  - For Linux on zSeries, ja_JP.eucjp

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:

Note: Netscape 6.x is not supported on any operating system.

- Windows 2000 with one of the following browsers with Java Plug-in level 1.3.1_02:
  - Microsoft Internet Explorer 5.0 or later, with SP2®
  - Netscape 4.79, or later 4.7x release
- Windows NT 4.0 or later with one of the following browsers with Java Plug-in level 1.3.1_02:
  - Microsoft Internet Explorer 5.0 or later, with SP2
  - Netscape 4.79, or later 4.7x release
- AIX 4.3.3 (5765-C34) at Recommended Maintenance level 09 or later
  - Netscape 4.76i with Java Plug-in level J2RE 1.3.0 IBM build ca130-20020208
- AIX 5.1 (5765-E61) with Recommended Maintenance package 5100-01 installed
  - Netscape 4.78i with Java Plug-in level J2RE 1.3.0 IBM build ca130-20020208
- HP-UX 11 or later with Netscape 4.78 and HP-UX Java Plug-in and Runtime Environment Version 1.3.1.02
- Sun Solaris 2.8 or later with Netscape 4.76 and JRE 1.3.1_02 Plug-ins
- SuSE 7.1 or 7.2 distribution of Linux with Netscape 4.77 and Java Plug-in level J2RE 1.3.0 IBM build cxia131-20020410

Note: 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:

http://www.tivoli.com/nv390/
Red Hat 7.1 or 7.2 distribution of Linux with Netscape 4.78 and Java Plug-in level J2RE 1.3.0 IBM build cxia131-20020410

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:

http://www.tivoli.com/nv390/

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

- Windows 2000 with one of the following browsers with Java Plug-in level 1.3.1_03:
  - Microsoft Internet Explorer 5.0, or later, with SP2
  - Netscape 4.78, or later 4.7x release
- Windows NT 4.0, or later, with one of the following browsers with Java Plug-in level 1.3.1_03:
  - Microsoft Internet Explorer 5.0, or later, with SP2
  - Netscape 4.78, or later 4.7x release
- AIX 4.3.3. (5765-C34), at Recommended Maintenance level 09 or later
  - Netscape 4.76i with Java Plug-in level J2RE 1.3.0 IBM build ca130-20020208
- AIX 5.1 (5765-E61) with Recommended Maintenance package 5100-01 installed
  - Netscape 4.78i with Java Plug-in level J2RE 1.3.0 IBM build ca130-20020208
- Sun Solaris 2.8, or later, with Netscape 4.76 and JRE 1.3.1_02 Plug-ins
- SuSE 7.2 distribution of Linux with Netscape 4.76 and Java Plug-in level J2RE 1.3.0 IBM build cxia131-20020410
- Red Hat 7.2 distribution of Linux with Netscape 4.79 and Java Plug-in level J2RE 1.3.0 IBM build cxia131-20020410

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 at:

http://www.tivoli.com/nv390/

Dynamic VIPA and Sysplex Distributor Support

NetView Web Application prerequisites

- OS/390 Version 2 Release 10 IP Services with APAR PQ56105
- z/OS Release 1 IP Services with APAR PQ56105
- z/OS Release 2 IP Services with PTFs UQ59826 and UQ59827

IP Resource Discovery and Management on Linux on zSeries

SuSE Linux Enterprise Server for S/390 version 7.0 at kernel level 2.2.16 with TCP/IP and Korn shell RPM package installed

Note: The Integrated TCP/IP Services Component 7.1.1 CD included in the Tivoli NetView for z/OS package includes IP Resource Discovery and Management on Linux on zSeries. If IP Resource Discovery and Management on Linux on zSeries is installed in the same logical partition (LPAR) as the NetView Web Application, port assignment changes are required as described in the NetView Web Application README.

Launching TBSM from NMC or NMC from TBSM

- Tivoli Business System Manager V1R5 (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® 3.6.1, or later (5697-EAS, 5698-EAS)

Using secure framework communication also requires:

- Tivoli Management Framework for OS/390 3.6.1 (5697-D10, 5698-FRA)

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 Version 5 Release 1 (5655-DB2), or later, is required.

Beeper/Pager Support

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

Issuing OS/390 or z/OS UNIX Services Commands from NetView

- REXX alternate run-time (same as for MSM Component)
- If NetView is running on OS/390 V2R10 or z/OS V1R1, APAR OW45635 is also required.

Support for IBM LAN Network Manager Enhanced Command Interface

- IBM LAN Network Manager Version 2.0 (03H3519, 03H3523, or 03H3527)

Management of Frame Relay (DTE) and Ethernet

- ACF/NCP Version 6 (5688-231)

NetView Parallel Transmission Group Support

- ACF/NCP Version 5 Release 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 Version 4 Release 3.1 (5668-854) for the 3725
- ACF/NCP Version 5 Release 4 MVS (5668-738), or later, for the 3720 or 3745

NetView Performance Monitor (NPM) Alerts

- NPM Version 1 Release 6 (5665-333 MVS), or later, for session alerts

SAF Security Checking

OS/390 Version 2 Release 10 (5647-A01) Security Server or 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

System Considerations for using the REXX Alternate Library

Before using the REXX Alternate Library with NetView for z/OS, you must first apply the following PTFs:

- UN78518
- UN78525
- UN84251
- UN86020
- UN88434
- UN90776
- UN93567
- UN93568
- UN96368
- UQ02796
- UQ04867
- UQ06343
- UQ06344
- UQ06830
- UQ10660
- UQ12616
- UQ17096
- UQ18015

One of the following:
- AIX 4.3.3.10 (5765-C34), or later
- Windows NT 4.0
- Windows 2000
- Solaris 2.6, or later
- HP-UX 10.20, or later

Commands from IBM Tivoli NetView for z/OS to TEC

Topography Feature for LAN Network Manager

- IBM LAN Network Manager 2.0 (03H3519, 03H3523, or 03H3527) with NetView connectivity
- Communications Manager/2 Version 1 Release 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 Version 4.3.3.10 (5765-C34), or later
  - Tivoli NetView for AIX 6.0.3 (5698-NVW), 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 1.3.3 (5621-107)
  Note: If 1.2.2 is already installed PTF U473211 provides an upgrade to 1.3.3.
  - IBM Communication Server for AIX 6.1 (5765-E51)

- 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 Version 10 Release 20, or later
  - Hewlett Packard Network Node Manager (HP OpenView) Version 5 Release 1, or later

- Windows NT and Windows 2000
  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 NT Version 4 or Windows 2000
  - IBM Tivoli NetView for NT 6.0.3 (5698-NVW), 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 Version 2 Release 6, or later
  -- Tivoli NetView for Solaris 6.0.3 (5698-NVW), or later

- The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires:
  -- Solaris Version 2 Release 6, or later
  -- HP OpenView Version 5 Release 1, or later

Requirements satisfied include:

<table>
<thead>
<tr>
<th>Request</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR00063430</td>
<td>Optional destination for orphaned correlated messages</td>
</tr>
<tr>
<td>MR00069068</td>
<td>NMC server on z/OS and OS/390</td>
</tr>
<tr>
<td>MR00072628</td>
<td>MSGCNRM416l common REXX Return Reason examples in the HELPMSG panel</td>
</tr>
<tr>
<td>MR00072827</td>
<td>Asynchronous View Panel Processing</td>
</tr>
<tr>
<td>MR00073370</td>
<td>FKXERINI needs to be run automatically by NetView initialization</td>
</tr>
<tr>
<td>MR00074141</td>
<td>NMC — Would like NMC Server to run on OS/390 and z/OS</td>
</tr>
<tr>
<td>MR00075974</td>
<td>Provide security prevention to misuse of TSOSERV</td>
</tr>
<tr>
<td>MR00076382</td>
<td>Native NetView/390 or z/OS SNMP and PING</td>
</tr>
<tr>
<td>MR0314015543</td>
<td>The SNA-MDS @ Indicator on NPDA ALD panel should be made conditional</td>
</tr>
<tr>
<td>MR0607014048</td>
<td>Increase size of parms for NVSNMP line command</td>
</tr>
<tr>
<td>MR111400531</td>
<td>NMC: Security Control for NMC access</td>
</tr>
<tr>
<td>MR111400535</td>
<td>Central log (on NMC Server)</td>
</tr>
<tr>
<td>MR1210012719</td>
<td>The SNA-MDS @ Indicator on NPDA ALD panel should be made conditional</td>
</tr>
<tr>
<td>MR1205007319</td>
<td>Support IP Discovery fully in Tivoli NetView for z/OS and OS/390</td>
</tr>
<tr>
<td>MR1219002842</td>
<td>Monitor dynamic IP connections</td>
</tr>
</tbody>
</table>

Topography Feature for Netfinity

- Netfinity Manager Version 5.0 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 Version 4 Release 3.1 (5668-854), or later; Version 5 Release 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 4.3.3.10 (5765-C34), or later
- Tivoli NetView for AIX 6.0.3 (5698-NVW), or later
- AIX NetView Service Point 1.3.3 (5621-107)

If 1.2.2 is already installed, PTF U473211 provides an upgrade to 1.3.

- IBM Communication Server for AIX 6.1 (5765-E51)

User Group Requirements: This announcement satisfies or partially satisfies 14 requirements from one or more of the worldwide user group communities. Groups include Interaction Australasia (formerly Australasian SHARE/GUIDE, COMMON Australasia and Team RS/6000®), COMMON, COMMON Europe, GUIDE International, G.U.I.D.E. Europe, Japan GUIDE/SHARE (JGS), Guide Latin American (LAG), SHARE EUROPE, and SHARE Incorporated.

The Interaction Australasia Web site is:


Planning Information

Customer Responsibilities

To learn about NetView for z/OS new functions, tools, samples, demos, and other product information online using the Internet World Wide Web, visit the NetView for z/OS home page at:

http://www.tivoli.com/nv390

Packaging

Packaging for IBM Tivoli NetView for z/OS V5R1 is as follows:

Either 4-mm tapes or 3480 tape cartridge

In addition, the following are also shipped.

- IBM Tivoli NetView, LCD4-4916-00
- Integrated TCP/IP Services CD, LCD4-4928-00
- One REXX Alternate Library tape, either 4-mm or 3480 tape cartridge
- NetView OS/390 Online Library, LK2T-6175-00
- IBM Tivoli NetView CD-ROM Japanese, LCD4-4929-00

When the Japanese language tape media feature is ordered, the Japanese language Program Directory (GI10-3210-00) is shipped instead of English language Program Directory.

**Note:** Refer to the Publications section of this announcement for a complete list of hard copy publications shipped with IBM Tivoli NetView for z/OS V5R1.
Security, Auditability, and Control

The security, auditability, and control features remain unaffected by this announcement. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Customer Financing

IBM Global Financing offers attractive financing to credit-qualified commercial and government customers and Business Partners in more than 40 countries around the world. IBM Global Financing is provided by the IBM Credit Corporation in the United States. Offerings, rates, terms and availability may vary by country. Contact your local IBM Global Financing organization. Country organizations are listed on the Web at:

http://www.financing.ibm.com

Ordering Information

New Licensees

Orders for new licenses can be placed now.

Shipment will begin on the planned availability date.

New users of IBM Tivoli NetView for z/OS V5R1 should specify:

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

**Basic License:** To order a basic license specify the program number and feature number 9001 for asset registration and the appropriate charge from the following options based on your environment. When a new release is available, prior release will no longer be available.

**Entry Support License (ESL):** To order an ESL license, specify the program number, feature number 9001 for asset registration, and the applicable ESL OTC feature number. Also specify the feature number of the desired distribution medium.

<table>
<thead>
<tr>
<th>Program Number/Description</th>
<th>ESL Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5697-ENV IBM Tivoli NetView for z/OS V5R1</td>
<td>0018</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 feature number 9001 for asset registration. Specify the PSLC Base feature. If applicable, specify the PSLC Level A and PSLC Level B, and PSLC Level C, and PSLC Level D features and quantity.

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 feature numbers and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex.

<table>
<thead>
<tr>
<th>Machine MSU Capacity</th>
<th>PSLC Feature Number</th>
<th>PSLC Basic License MLC Feature Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0001</td>
<td>PSLC Base, 1 MSU</td>
</tr>
<tr>
<td>2</td>
<td>0002</td>
<td>PSLC Base, 2 MSUs</td>
</tr>
<tr>
<td>3</td>
<td>0003</td>
<td>PSLC Base, 3 MSUs</td>
</tr>
<tr>
<td>4 — 45</td>
<td>0004</td>
<td>PSLC Level A, 1 MSU</td>
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<tr>
<td></td>
<td>0005</td>
<td>PSLC Level A, 2 MSUs</td>
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<tr>
<td>46 — 175</td>
<td>0006</td>
<td>PSLC Level B, 1 MSU</td>
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<tr>
<td></td>
<td>0007</td>
<td>PSLC Level B, 10 MSUs</td>
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<tr>
<td></td>
<td>0008</td>
<td>PSLC Level B, 50 MSUs</td>
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<tr>
<td>176 — 315</td>
<td>0009</td>
<td>PSLC Level C, 1 MSU</td>
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<td></td>
<td>0010</td>
<td>PSLC Level C, 10 MSUs</td>
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<td>0011</td>
<td>PSLC Level C, 50 MSUs</td>
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<td>316 or more</td>
<td>0012</td>
<td>PSLC Level D, 1 MSU</td>
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<td></td>
<td>0013</td>
<td>PSLC Level D, 50 MSUs</td>
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<td>NA</td>
<td>0014</td>
<td>PSLC NC Identifier</td>
</tr>
</tbody>
</table>

**zELC (zSeries Entry License Charge):** To order a basic license, specify the program number and feature number 9001 for asset registration. Specify the zELC Base feature.

Also, specify the feature number of the desired distribution medium.

<table>
<thead>
<tr>
<th>Description</th>
<th>Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model 0A1</td>
<td>0033</td>
</tr>
<tr>
<td>Model 0B1</td>
<td>0034</td>
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<tr>
<td>Model 0C1</td>
<td>0035</td>
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<td>Model 001</td>
<td>0036</td>
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<td>Model 0A2</td>
<td>0037</td>
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<td>Model 002</td>
<td>0038</td>
</tr>
<tr>
<td>Model 003</td>
<td>0039</td>
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<tr>
<td>Model 004</td>
<td>0040</td>
</tr>
</tbody>
</table>

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

**Workload License Charge (WLC) Basic License:** To order a basic license, specify the program number and feature number 9001 for asset registration. Also, specify the feature number of the desired distribution medium.
Variable Workload License Charge Features

<table>
<thead>
<tr>
<th>VWLC Feature Description</th>
<th>VWLC Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base, Level 1 includes 45 MSUs</td>
<td>0019</td>
</tr>
<tr>
<td>Additional qty, Level 1 up to 175 MSUs</td>
<td>0020</td>
</tr>
<tr>
<td>Registration Base, Level 1 incl 1 MSU</td>
<td>0021</td>
</tr>
<tr>
<td>Registration additional quantity</td>
<td>0022</td>
</tr>
<tr>
<td>Level 1 up to 175 MSUs</td>
<td>0023</td>
</tr>
<tr>
<td>Additional qty, Level 2 176 — 315 MSUs</td>
<td>0024</td>
</tr>
<tr>
<td>Level 2 176 — 315 MSUs</td>
<td>0025</td>
</tr>
<tr>
<td>Registration additional quantity</td>
<td>0026</td>
</tr>
<tr>
<td>Level 3 316 — 575 MSUs</td>
<td>0027</td>
</tr>
<tr>
<td>Level 3, Per 50 MSUs for machine capacity of 316 — 575 MSUs</td>
<td>0028</td>
</tr>
<tr>
<td>Level 3, Registration Per 50 MSUs 316-576+ MSUs</td>
<td>0029</td>
</tr>
<tr>
<td>Additional qty, Level 4 576+ MSUs</td>
<td>0030</td>
</tr>
<tr>
<td>Registration additional quantity</td>
<td>0031</td>
</tr>
<tr>
<td>Level 4 576+ MSUs</td>
<td>0032</td>
</tr>
<tr>
<td>Level 4, Per 50 MSUs for machine capacity of 576+ MSUs</td>
<td>0033</td>
</tr>
<tr>
<td>Level 4, Registration Per 50 MSUs 576 MSUs</td>
<td>0034</td>
</tr>
</tbody>
</table>

Growth Opportunity License Charge (GOLC)

To order a GOLC software, specify the program number, feature number 9001 for asset registration, and the GOLC monthly charge feature number from the table below. Also, specify the feature number for the desired distribution medium.

<table>
<thead>
<tr>
<th>GOLC Category</th>
<th>GOLC Feature Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>H30</td>
<td>0015</td>
</tr>
<tr>
<td>H50</td>
<td>0016</td>
</tr>
<tr>
<td>H70</td>
<td>0017</td>
</tr>
</tbody>
</table>

**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>Environment</th>
<th>Feature Number</th>
<th>Distribution Medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. English</td>
<td>5802</td>
<td>3480 tape cartridge</td>
</tr>
<tr>
<td>U.S. English</td>
<td>5702</td>
<td>4-mm tape</td>
</tr>
<tr>
<td>Japanese</td>
<td>5822</td>
<td>3480 tape cartridge</td>
</tr>
<tr>
<td>Japanese</td>
<td>5722</td>
<td>4-mm tape</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.

**Update Shipments**

- Ship Media Updates Only (suppresses update shipment of documentation) 3480
- Ship Documentation Only (suppresses update shipment of media) 3481
- Suppress Updates (suppresses update shipment of media and documentation) 3482

**Expedite Shipments**

- Local IBM Office Expedite (for IBM use only) 3445
- Customer Expedite Process Charge ($30 charge for each product) 3446

**Unlicensed Documentation**

The following U.S. English hard copy 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>SC31-8872-00</td>
<td>Installation: Getting Started</td>
</tr>
<tr>
<td>SC31-8873-00</td>
<td>Installation: Migration Guide</td>
</tr>
<tr>
<td>GC31-8848-00</td>
<td>Licensed Program Specifications (LPS)</td>
</tr>
<tr>
<td>GI10-3194-00</td>
<td>Tivoli NetView for z/OS Program Directory</td>
</tr>
<tr>
<td>GI10-3196-00</td>
<td>Memo to Users</td>
</tr>
<tr>
<td>GI11-0801-01</td>
<td>REXX Alternate Library Program Directory</td>
</tr>
<tr>
<td>SC31-8869-00</td>
<td>Tuning Guide</td>
</tr>
</tbody>
</table>

The following soft copy publications are shipped on the soft copy CD ROM, LK2T-6175-00 Tivoli NetView for z/OS Online Library.

<table>
<thead>
<tr>
<th>Form Number</th>
<th>Publication</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC31-8854-00</td>
<td>Administration Reference</td>
</tr>
<tr>
<td>SC31-8871-00</td>
<td>AON Customization</td>
</tr>
<tr>
<td>GC31-8851-00</td>
<td>AON User’s Guide</td>
</tr>
<tr>
<td>SC31-8855-00</td>
<td>Application Programming Guide</td>
</tr>
<tr>
<td>SC31-8853-00</td>
<td>Automation Guide</td>
</tr>
<tr>
<td>SC31-8867-00</td>
<td>Bridge Implementation</td>
</tr>
<tr>
<td>SC31-8857-00</td>
<td>Command Reference Vol I</td>
</tr>
<tr>
<td>SC31-8858-00</td>
<td>Command Reference Vol II</td>
</tr>
<tr>
<td>SC31-8859-00</td>
<td>Customization Guide</td>
</tr>
<tr>
<td>SC31-8860-00</td>
<td>Customization: Assembler</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.

**Displayable Softcopy Publications**

IBM Tivoli NetView for z/OS V5R1 manuals are offered in displayable softcopy form. All manuals with the exception of the Tuning Guide are included. The files are shipped on CD-ROM.

The first copy of the following softcopy material is available at no charge to licensees of basic material and supplied automatically with the basic machine-readable material.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tivoli NetView for z/OS Online Library</td>
<td>LK2T-6175-00</td>
</tr>
</tbody>
</table>

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