



Licensed Program Specifications

NetView for z/OS Version 5 Release 2 Program Number 5697-ENV

Abstract

NetView for z/OS Version 5 Release 2 (V5R2) provides state-of-the-art management for your critical networked computing infrastructure. As your network has evolved over the years, so has NetView.

Operating Environment

Hardware Requirements: IBM Tivoli NetView for z/OS V5R2 runs in a virtual storage environment on any IBM system configuration with storage sufficient to support z/OS.

NetView Management Console, NetView 3270 Management Console

Topology Server

- Any hardware that supports one of the following operating systems:
 - AIX 5.1 (5765-E61), or later
 - Windows 2000 Professional
 - Windows 2000 Server
 - Windows 2000 Advanced Server
 - Windows Server 2003 Standard
 - Windows Server 2003 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: 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 Server 2003 Standard
 - Windows Server 2003 Enterprise
 - Win XP Professional
 - 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/EMD64T)
 - Solaris 9 or later
- Processor: minimum 350 MHz
- Memory: 256 MB
- Install Footprint: 50 MB of additional fixed disk space
- Color display (1024 x 768, 256 colors)
- Maximum color palette is 16-bit high color; 256-color palette recommended (32-bit true color is not supported)

NetView Web Application

HTTP Server and Web Application Server: Any hardware that supports one of the following operating systems running IBM WebSphere Application Server - Express v6.0.2.

- AIX 5.1 (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

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 recommended

Web Browsers

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

- Mozilla Firefox 1.7, 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 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)

- HP-UX 11, or later (English only)
- Solaris 9, or later
- Internet Explorer 6.0, or later
 - 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 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 5.1 (5765-E61) or later
- Tivoli NetView for AIX 7.1.4 (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 Tivoli NetView for z/OS. The MultiSystem Manager TCP/IP agent for HP OpenView running on HP-UX requires hardware that supports:

- HP-UX Version 11, or later
- Hewlett Packard Network Node Manager (HP OpenView) Version 5 Release 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 7.1.4 (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 IBM Tivoli NetView for Solaris or Hewlett Packard Network Node (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 7.1.4 (5698-NVW) or later
- The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires hardware that supports the following:
 - Solaris 9, or later

- Hewlett Packard Network Node Manager (HP OpenView) Version 5 Release 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) 7.1.4, 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 5.1 (5765-E61) 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 (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- 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 5.1 (5765-E61), or later
 - Tivoli NetView for AIX 7.1.4 (5698-NVW) or later
 - AIX NetView Service Point 1.3.3 (5621-107)
 - IBM Communication Server for AIX 6.1 (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 Version 4 Release 3.1 (5668-854) or later
- All functions using TCP/IP communications from OS/390 or 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
- Tivoli NetView for z/OS V5.1
- 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 V5R2:

- 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

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 on HP-UX
- NMC Topology Console on AIX and NMC 3270 on AIX
- 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 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, Tivoli NetView for z/OS V5.2 will operate with most definition statements and command lists of the following:

- NetView V2.3 for OS/390 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

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 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.

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 3.6.0
- 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 3.6.0 refer to the OMEGAMON Platform and CandleNet Portal: Installing and Setting up OMEGAMON Platform and CandleNet Portal on Windows and UNIX documentation.

http://publib.boulder.ibm.com/tividd/td/CanInstallDoc/SC32-1768-00/en_US/PDF/omxe_platform_cnp.pdf

Opening Incident Records from NetView: One of the following is required:

- 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 5.2 or 5.3
- For Peregrine ServiceCenter
 - ServiceCenter Server 6.0 Server
 - ServiceCenter Web Client or Windows Client for Database Management
 - Optionally: ServiceCenter Web Client for additional management 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 7.1.2, or later

Support for Hot Standby Router Protocol (HRSP)

- IBM Tivoli NetView 7.1, 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 is required:

- AIX 5.1 (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 included on the IBM Tivoli NetView for z/OS V5.2 product CD.

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

Prerequisites for Linux on zSeries:

- TCP/IP and ksh (Korn shell) RPM package
- gsk6bas-6.0.-7.6.s390.rpm which is the Linux for zSeries Base Security kit (GSKit). This is available on CD.
- SuSE Linux Enterprise 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.
<http://www.ibm.com/software/sysmgmt/products/support>

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 WS 4 (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 Server README in the Supported Functions Download area of the NetView Web site.
<http://www.ibm.com/software/sysmgmt/products/support>

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

- 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:

- 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 Service Pack 4, or later
 - Windows 2000 Advanced Server with Service Pack 4, or later
 - 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 NMC Topology Server README in the Supported Functions Download area of the NetView Web site.
<http://www.ibm.com/software/sysmgmt/products/support>

- 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:

- Windows 2000 Professional, Windows 2000 Server, Windows 2000 Advanced Server, Windows Server 2003 Standard, Windows Server 2003 Enterprise, Windows XP Professional with Microsoft Internet Explorer 6.0, or later with Java Plug-in level 1.4.2_07
- 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 Server 9, SuSE Linux Enterprise Server 9 (AMD64/ED64T) with Mozilla Firefox 1.7, or later, with Java Plug-in 1.4.2_07
- Red Hat Enterprise Linux 2.1, Red Hat Enterprise Linux AS 3, Red Hat Enterprise Linux ES 3, 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 1.4.2_07
- 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.ibm.com/software/sysmgmt/products/support/IBMTivoliNetViewforzOS.html>

Dynamic VIPA and Sysplex Distributor Support

- NetView Web Browser Interface 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 (ITSC) 7.1.4

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 3.8 or 3.9
Using secure framework communications also requires:
- Tivoli Management Framework for OS/390 3.7.1., or later

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 V5.1 (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 z/OS UNIX Services Commands from NetView

- REXX alternate run-time (same as for MSM Component)

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 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 5.1.2
- A compatible level between each of the following:

- Tivoli Enterprise Console 3.8 or 3.9
- Tivoli Management Framework 3.7.1 or 4.1.1

- One of the following:

- AIX 5.1 (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 1, 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 WS 4 (AMD64/EM64T)

Commands from IBM Tivoli NetView for z/OS to TEC

- MultiSystem Manager Topology feature for TMR

Topology Feature for LAN Network Manager

- IBM LAN Network Manager 2.0 (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 5.1 (5765-E61) at Recommended Maintenance level 05, or later
- Tivoli NetView for AIX 7.1.4, 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 1.3.3 (5621-107), or later
- 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), 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 Version 11, 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 7.1.4, 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 7.1.4, or later
- The MultiSystem Manager TCP/IP agent for OpenView for Solaris requires:
 - Solaris 9, or later
 - Hewlett Packard OpenView 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) 7.1.4, or later

Topology 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.

- 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 5.1 (5765-E61) or later
- Tivoli NetView for AIX 7.1.4, or later
- AIX NetView Service Point 1.3.3 (5621-107), or later
 - If 1.2.2 is already installed, PTF U473211 provides an upgrade to 1.3.
- IBM Communication Server for AIX 6.1 (5765-E51)

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- APACHE JASPER V 4.0
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- ICU4J 3.2
- JYTHON V 2.1
- MOZILLA RHINO SCRIPTING ENGINE V 1.5.2
- MX4J V 1.1
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