Tivoli NetView Performance Monitor Version 2
Release 5

Overview

Tivoli® NetView® Performance Monitor Version 2 Release 5 (NPM) monitors, records, and interactively reports network communication, performance, and utilization. Through a Java-based GUI, NPM provides a real-time analysis of traffic flow and transmission times. It also furnishes all the necessary tools for network tuning and problem determination for both SNA- and TCP/IP-based networks, and installs easily in just a few hours.

Completely integrative with Tivoli NetView for OS/390®, Tivoli NetView Performance Monitor Version 2 Release 5 represents another leap forward in the management capabilities offered by Tivoli’s suite of OS/390 products. New capabilities have been added to NPM’s principal management functions, confirming it as the management tool of choice for today’s heterogeneous networks.

Key Prerequisites

The following software is required:
- 5647-A01, OS/390 V2R5 or higher
- 5655-A29, CS OS/390 V2R5 or higher

Planned Availability Dates

- November 26, 1999, for U.S. English
- February 25, 2000, for Japanese

At a Glance

Release 5 of NPM adds:
- Retrieval of Internet Protocol data from IP routers
- Collection of session traffic data through IP routers
- A Java Console for a variety of client workstations
- Simplified installation procedure
- Wildcard support for faster locating of resources on 3270 panels

NPM continues to provide:
- TCP/IP support with the 3270E console, for service level management for SNA-based applications running on an IP backbone
- Support for the most current level of VTAM®, NCP, and OS/390
- Integration with NetView for OS/390 automation and management
- Easy and meaningful reports
- Efficient search mechanism that allows operators to spend more time resolving problems instead of searching for problems
- Improved network availability with multinode persistent sessions

For ordering, contact:
Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL

Reference: LE001

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<table>
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<th>Description</th>
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**New in Release 5**

Tivoli NetView Performance Monitor Version 2 Release 5 represents another leap forward in the management capabilities offered by Tivoli’s suite of OS/390 products. New capabilities have been added to NPM’s principal management functions, confirming it as the management tool of choice for today’s heterogeneous networks.

**Network Performance Management**

NPM’s network performance management capabilities have been boosted by the new support for the collection of data from IP routers. Critical performance indicators can be collected from IBM routers (2210, 2216, 8210-02, and 6611) as well as routers manufactured by other companies such as Cisco. This new capability complements the robust support already present for SNA-based devices like 3745 Communication Controllers and the 3746 Nways Multinetwork Controllers, and allows you to manage the performance of both SNA- and TCP/IP-based network resources from a single management tool.

The introduction of this important new function removes the need for a separate tool for IP router performance management, and completes the network performance picture within NetView Performance Monitor. NPM continues to evolve with enterprise network trends and technologies, providing long-term return on investment.

SNMP flows are used to interrogate MIBs maintained by these IP-based devices, to retrieve information that includes device identification, storage usage, and processor utilization.

**Session Management**

In addition to the new network performance management capabilities described above, NPM can also collect information about the session traffic through the IP routers. This vital information augments the extensive session management support already available in NPM, and is vital for capacity planning, network tuning, and service-level monitoring activities.

NPM’s traditional SNA session data collection support has also been further strengthened, to provide additional value for users in large multi-host or sysplex environments. Sessions that fan out from session managers such as TPX or Supersession to target applications on a different OS/390 image can now be monitored to the same degree as sessions to applications on the same host. Data is recorded for the single logical session from workstation to target application, and response time data is broken down into network and host components.

**User Interface**

Dramatic new developments to the NPM user interfaces make it easier to manage your network from your platform of choice. The new NPM Java Console allows you to view performance, topology, and exception information graphically, on a vast variety of client workstations. Both historical and real-time data is clearly presented through easy-to-use yet highly flexible dataview windows. The Console’s intuitive approach and uncluttered display guarantee immediate productivity, even from inexperienced users.

Moreover, installation couldn’t be simpler. The Java Console can be installed in a matter of minutes. The TCP/IP connection to NPM reduces connection definitions to an absolute minimum and reduces communications software requirements on the client workstation. You can monitor your network’s performance within 10 minutes of opening the CD.

User productivity is boosted on NetView Performance Monitor 3270 panels too, with the introduction of the new wildcard support. Resource lists can now be filtered to display only resources that share a similar name. This makes it easier and quicker for NPM users to locate the resources they require. This useful productivity aid is available for both network and session (response time) data.

**Year 2000**

This product is Year 2000 ready. When used in accordance with its associated documentation, it is capable of correctly processing, providing, and/or receiving date data within and between the twentieth and twenty-first centuries, provided that all products (for example, hardware, software, and firmware) used with the product properly exchange accurate date data with it.

**Euro Currency**

This program is not impacted by euro currency.

**Product Positioning**

NPM provides the necessary information, associated with a customer’s communications network, needed for performance management, network accounting, and problem determination. Customers using NetView, ACF/VTAM®, ACF/NCP, and Novell NetWare can realize the benefits of managing the performance of their networks using NPM. NPM continues to evolve to meet users’ changing management needs.

**Hardware and Software Support Services**

**SmoothStart™/Installation Services**

Tivoli Services plans to provide fee-based services for Tivoli NetView Performance Monitor Version 2 Release 5. These services focus on a rapid installation and introduction of Tivoli NetView Performance Monitor in a customer’s information technology environment.
Reference Information

Refer to:

- Software Announcement 298-216, dated June 23, 1998
- Software Announcement 297-076, dated March 25, 1997

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Education Support

The appropriate curriculum will be updated, as necessary, to include the enhancements in this announcement.

Training is offered through Tivoli® Systems and our authorized training partners.

For current information on Tivoli System education, call 800-2Tivoli (284-8654) (512-794-9070 for outside U.S.), send e-mail to training@tivoli.com, or visit the Tivoli Systems home page on the Internet (select “Services” then select “Worldwide Education” then search for “NetView® Performance Monitor” for training information) at:

http://www.tivoli.com

Technical Information

Specified Operating Environment

Hardware Requirements

- Any processor that supports OS/390® Version 2 Release 5 or higher
- An IBM 3270 display Mode 2 emulator (25*80), or a 3290 terminal operating as a Systems Network Architecture (SNA) logical unit (LU) type 0 or type 2
- One tape drive for installation and problem documentation

Optional Hardware: The following hardware is optional:

- Any Intel processor or compatible capable of displaying double-byte character-set (DBCS) national languages
- A CD-ROM reader for softcopy books
- A Personal Computer with Intel Processor or compatible with the following configuration for the NPM Console:
  - Pentium™ 166 MHz processor or greater
  - 64 MB of random access memory (RAM)
  -- 15 MB additional fixed space for NPM Console
  -- 7 MB additional fixed space for Java™ Runtime Environment
  - Screen resolution of 600 by 600 with 256 colors
- The NPM NetWare resources data collection feature requires a NetWare server with the following:
  - 10 KB of RAM
  - Additional 0.5 KB of RAM for each active collection
  - 20 KB of available space on the hard disk

Software Requirements: For Tivoli NetView Performance Monitor Version 2 Release 5, the following software is required:

- 5647-A01, OS/390 V2R5 or higher
- 5655-A29, CS OS/390 V2R5 or higher
- For NPM Console:
  - Windows NT™ or 95 or 98 OS/2®
  - OS/2 Warp Version 4 or later

Optional Programs: To take advantage of all of NPM’s functions, the following table lists the minimal levels of optional software that is needed:

<table>
<thead>
<tr>
<th>SOFTWARE</th>
<th>VER/RLS</th>
<th>REQUIRED ONLY FOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>NCP</td>
<td>V4R3</td>
<td>Network session accounting data</td>
</tr>
<tr>
<td>NCP</td>
<td>V4R3.1 or V5R2.1</td>
<td>Network gateway accounting data</td>
</tr>
<tr>
<td>NCP</td>
<td>V5R4</td>
<td>NPSI and XI data collection</td>
</tr>
<tr>
<td>NCP</td>
<td>V6R1</td>
<td>Network collection by transmission priority, Frame Relay DTE support</td>
</tr>
<tr>
<td>NCP</td>
<td>V6R2</td>
<td>Ethernet, Frame Relay DCE support</td>
</tr>
<tr>
<td>NCP</td>
<td>V6R2F</td>
<td>ESCON(R) resources network collection, ODL/DCE LAN data collection</td>
</tr>
<tr>
<td>NCP</td>
<td>V7R1</td>
<td>IP over Token-Ring data collection</td>
</tr>
<tr>
<td>NCP</td>
<td>V7R3</td>
<td>Frame Relay over Token-Ring, IP over Frame Relay and HPR data collection</td>
</tr>
<tr>
<td>NCP</td>
<td>V7R5</td>
<td>ISDN line support, X.25 on 3/46 data collection</td>
</tr>
<tr>
<td>CS/OS/390</td>
<td>V2R5</td>
<td>Telnet session collection</td>
</tr>
<tr>
<td>NetView</td>
<td>V1R1</td>
<td>RTM data collection</td>
</tr>
<tr>
<td>NetView</td>
<td>V1R3</td>
<td>NetView alerts, LAN data collection</td>
</tr>
<tr>
<td>NetView</td>
<td>V2R3</td>
<td>Multiple alert receivers, NetWare resource data collection</td>
</tr>
<tr>
<td>LAN Manager</td>
<td>V2</td>
<td>LAN bridge data collection</td>
</tr>
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The security and auditability features of both NPM and RACF, OS/390 Security Server.

The announced program uses the security and auditability features of both NPM and RACF, OS/390 Security Server. NPM to NPM communication is not supported between NPM Version 1 and NPM Version 2.

**Compatibility:** Tivoli NetView Performance Monitor Version 2 Release 5 is supported only in conjunction with other NPM Version 2 licensed programs for NPM to NPM communication. NPM to NPM communication is not supported between NPM Version 1 and NPM Version 2.

**Security, Auditability, and Control**

The announced program uses the security and auditability features of both NPM and RACF, OS/390 Security Server.

There are three levels of security and auditability features:

- **Minimal** — NPM only checks the operator ID to see if it is identified to NPM and not already logged on.

- **Normal** — NPM checks operator ID, password, and profile. The profile can limit what the operator is allowed to do.

- **RACF** — RACF checks operator ID and password. The profile is checked by NPM. (RACF is called by use of the SAF interface.)

- **User** — This security option allows an NPM user exit routine to be written to provide special ID and password validation, or it may be written to invoke an OEM security routine, other than RACF.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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**Customer Financing**

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**Ordering Information**

**Current Licensees**

Current licensees of Tivoli NetView Performance Monitor Version 2 will receive this update from IBM Software Delivery and Fulfillment automatically. This shipment of Release 5 is scheduled to be completed by December 10, 1999.

**New Licensees**

Orders for new licenses can be placed now.

Shipment will begin on the planned availability date.

New users of Tivoli NetView Performance Monitor Version 2 Release 5 should specify:

<table>
<thead>
<tr>
<th>Type</th>
<th>Model</th>
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<tbody>
<tr>
<td></td>
<td>5655 043</td>
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</table>

**Basic License:** For ordering information on the base program, refer to:

- Software Announcement 298-216, dated June 23, 1998
- Software Announcement 297-076, dated March 25, 1997
- Software Announcement 299-052, dated February 22, 1999 (PSLC Level D Price Introduction)
- Software Announcement 998-294, dated September 29, 1998 (Withdrawal of OTC/GOTC Option)
- Software Announcement 299-269, dated September 20, 1999 (Growth Opportunity License Charge for S/390 Software)
**Basic Machine-Readable Material**

**Withdrawal from Marketing:** Effective immediately, the following basic machine-readable material is withdrawn from marketing:

<table>
<thead>
<tr>
<th>Description</th>
<th>Environment</th>
<th>Feature Number</th>
<th>Distribution Medium</th>
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</thead>
<tbody>
<tr>
<td>NPM Base Package</td>
<td>U.S. English</td>
<td>5756</td>
<td>9/6250 magnetic tape</td>
</tr>
<tr>
<td>NPM Base Package</td>
<td>Japanese</td>
<td>5293</td>
<td>9/6250 magnetic tape</td>
</tr>
<tr>
<td>Novell Feature</td>
<td>U.S. English</td>
<td>5755</td>
<td>9/6250 magnetic tape</td>
</tr>
</tbody>
</table>

**Unlicensed Documentation:** A memo (GI10-5583), a program directory (GI10-5582), and one copy of the following publications are supplied automatically with the basic machine-readable material.

The translated publications will be available on February 25, 2000. Customers who want the product prior to the availability of the translated publications should order the U.S. English.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>NPM Concepts and Planning</td>
<td>GH19-6961</td>
</tr>
<tr>
<td>NPM User’s Guide</td>
<td>SH19-6962</td>
</tr>
<tr>
<td>NPM Console User’s Guide</td>
<td>SH19-4522</td>
</tr>
<tr>
<td>NPM Installation and Customization</td>
<td>SH19-6964</td>
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<tr>
<td>NPM Reference</td>
<td>SH19-6965</td>
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<tr>
<td>NPM Messages and Codes</td>
<td>SH19-6966</td>
</tr>
<tr>
<td>NPM Console License Information</td>
<td>GH19-4527</td>
</tr>
<tr>
<td>NPM Licensed Program Specifications</td>
<td>GH19-6968</td>
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<tr>
<td>NPM Program Directory for Novell Feature</td>
<td>GI10-5585</td>
</tr>
<tr>
<td>NPM Program Directory Japanese</td>
<td>GI10-5587</td>
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</table>

All of the above unlicensed publications can be ordered using the bill of forms number indicated below.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
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<tbody>
<tr>
<td>Tivoli NetView Performance Monitor for OS/390 Unlicensed Publications</td>
<td>SBOF-8454</td>
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</tbody>
</table>

**Displayable Softcopy Publications:** Unlicensed NPM manuals are offered in displayable softcopy form. All unlicensed manuals are included.

The displayable manuals are offered as no-charge feature number 7015.

The files are shipped on the NPM Product Library Kit (SK2T-6949) and on the IBM OS/390 Collection Kit (SK2T-6700).

These displayable manuals can be used with the BookManager® READ licensed programs in any of the supported environments. Terms and conditions for use of the machine-readable files are shipped with the files.

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

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<th>Title</th>
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<tr>
<td>NPM Diagnosis</td>
<td>LY19-6381</td>
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**Terms and Conditions**

The terms for Tivoli NetView Performance Monitor as previously announced in:

- Software Announcement 294-355, dated June 7, 1994
- Software Announcement 293-625, dated October 28, 1993

licenced under the IBM Customer Agreement are unaffected by this announcement.

**Support Line:** Yes

**Other Support:** S/390

**Charges**

The charges are unaffected by this announcement.

For additional product information, refer to:

- Software Announcement 298-216, dated June 23, 1998
- Software Announcement 297-076, dated March 25, 1997
- Software Announcement 294-355, dated June 7, 1994
- Software Announcement 293-625, dated October 28, 1993
- Software Announcement 299-269, dated September 20, 1999

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Year 2000 Readiness Disclosure