Tivoli Netview Performance Monitor V2.6 Adds Features That Improve Existing Network Management Capabilities

Overview
With NPM, OS/390® users can closely monitor and control their network infrastructure and its impact on day-to-day business. In addition to the ability to analyze network activities, NPM monitors, records, and interactively reports network communication, performance, and utilization. With its ability to provide network tuning information, support problem determination tools, and support for multiple protocols, NPM offers a universally accepted network performance management tool for today’s heterogeneous networks.

What’s New in This Version
Tightly integrated with Tivoli® NetView® for OS/390, NPM represents another huge advance in the network management capabilities offered by Tivoli’s OS/390 product suite. V2.6 of NPM includes the following new capabilities:

• New SNMP alerts provide enhanced support for Cisco routers and APPN® sessions
• Enhanced APPN interface statistics
• New support for Cisco CIP
• Cisco IP to LU mapping
• Usability enhancements to the 3270 display panels
• Recovery of the SNMP router collection on TCP/IP failure
• Recovery of GUI Interface Connection on TCP/IP failure
• Ability to launch the Java™ GUI from the NetView Management Console

Key Benefits
These enhancements to NPM only add to the network management benefits users already enjoy:

• Network performance and utilization information provides the needed data to support service-level agreement.
• Network elements that cause performance problems can be easily identified or eliminated.
• Network changes can be justified using definitive network data.
• NPM can, in conjunction with Tivoli NetView for OS/390, take automatic action based on performance information.

Key Prerequisites
Either of the following software is required:

• OS/390 V2R5 (5655-A29), or later
• z/OS V1R1 (5694-A01)

Planned Availability Date
December 1, 2000

At a Glance
Tivoli NetView Performance Monitor (NPM) monitors, records, and reports network communication, performance, and utilization through both Java-based GUI and traditional 3270 SNA displays. This new release offers these enhancements:

• Improved monitoring of SNMP router data by adding threshold relations
• Recovery of the SNMP router collection on TCP/IP failure
• Additional Cisco router support
• Improved 3270 panel display support
• Enhanced integration with Tivoli Netview
• Recovery of GUI Interface Connection on TCP/IP failure

This upgrade builds on the leading-edge network management capabilities NPM users enjoy today.

For ordering, contact:
Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL
Reference: LE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: http://www.ibm.com.
New in V2.6

Tivoli NPM 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.

NPM V2.6 strengthens and enhances the existing support already provided with the following additions.

SNMP Router Alerts

In addition to collecting SNMP Routers data, NPM can also monitor the collected data in relation to specified thresholds. When starting the collection, thresholds are specified. It’s possible to change them with the alter collection command. When thresholds on routers are set to be activated, NPM generates alerts to NetView.

The following counters are monitored:

- CPU usage percentage for IBM routers
- CPU busy percentage for Cisco routers
- APPN memory usage percentage for IBM routers
- Global buffers usage percentage for IBM routers
- Memory pool usage percentage for Cisco routers (individual Cisco memory pool usage)
- Interface utilization percentage (individual interface throughput)
- Percentage of packets received on the interface and discarded
- Percentage of packets sent by the interface and discarded

Dynamic Data Display 3270 Panels

The Dynamic Data Display function allows users to display data on 3270 panels without waiting for a collection interval. The data is automatically refreshed and displayed on the screen when the user presses the enter key. The following predefined PF keys are provided:

- NCPs
- Routers
- Lines (SDLC)
- Applications
- Terminals (SNA and TCP/IP)

This function is supported with new PF keys which are accessed in the same way on each panel. You may also access the Dynamic Data Display using the following paths:

- The new command DYNamic from the output review panel
- The fast path = 1.8 (Network Management) or = 2.4 (Response Time Management)

Recovery of SNMP Router Collection on TCP/IP Failure

An SNMP task is restarted when TCP/IP recovers after a failure and if any SNMP Router collection was active. The collection is then recovered.

Cisco IP to LU Mapping Support

NPM can retrieve IP to LU mapping information for TN3270/TN3270E clients connected into a S/390® via a Cisco TN3270E server.

Renaming of Labeled Items in 3270 Panels

Labels in the 3270 panels have been renamed to more meaningful and understandable labels.

Display APPN Interface Data

This functionality enables NPM V2.6 users to receive information on how much of the capacity for an interface was being used for APPN traffic. Most routers that support APPN have implemented the APPN_MIB. One of the tables in this MIB, Link Station, provides traffic counts and an index to the entry where the corresponding traffic flows. This can be used to determine what portion of the adapter was being specifically used for APPN traffic.

Recovery of GUI Interface Connection on TCP/IP Failure

When TCP/IP recovers after a failure, NPM 2.6 allows reconnection with a GUI Console without an NPM stoppage.

Cisco CIP Support

This enables the NPM V2.6 user to gather Cisco CIP management data.

Launching the NPM Java GUI from NetView Management Console (NMC)

This support provides further integration of NPM with NetView for OS/390.

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

Tivoli NPM provides the necessary information, associated with a customer’s communications network, needed for performance management, network accounting, and problem determination. Customers using NetView for OS/390, and Novell NetWare can realize the benefits of managing the performance of their networks using Tivoli NPM. Tivoli 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 NPM. These services focus on a rapid installation and introduction of Tivoli NPM 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
- Software Announcement 299-343, dated November 16, 1999
- Software Announcement 200-354, dated October 3, 2000

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Ed**ucation 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® V2R5, or later including z/OS
- 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 either 4-mm or 3480 tape cartridge, for installation and problem documentation

The following hardware is optional:

- A CD-ROM reader for softcopy books
- A personal computer with Intel® processor or compatible with the following configuration for the NPM Console:
  - Pentium™ 500 MHz processor, or greater
  - 128 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 800 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

The selection of personal computer model, size, DASD, and memory depends on performance factors, such as the size of the supported network, the number of views, and the amount of network activity.

Software Requirements

For all functions in NPM V2.6 for OS/390

Either of the following:

- OS/390 Version 2 Release 5 (5655-A29), or later with Communication Server
- z/OS Version 1 Release 1 (5694-A01)

For NPM console

- OS/2® Warp 4, or later, Windows 95, Windows 98, Windows NT™, and Windows™ 2000
- NetView NMC Topology Server 1.3 on AIX®, OS/2 and Windows NT platforms

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>Optional Software</th>
<th>Software</th>
<th>Ver/Rel</th>
<th>Required Only For</th>
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</thead>
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<tr>
<td></td>
<td>OS/390 V2R5</td>
<td>V2R5</td>
<td>Displaying and printing graphics</td>
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<td>NTRI</td>
<td>NCP V5R3.1</td>
<td>Token ring and TIC data collection</td>
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<td></td>
<td>NPSI</td>
<td>V3R4</td>
<td>X.25 data collection</td>
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<td>NPSI</td>
<td>V3R8</td>
<td>NPSI resources on 3746 support</td>
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<tr>
<td></td>
<td>XI</td>
<td>V2R3</td>
<td>X.25 data collection</td>
</tr>
<tr>
<td></td>
<td>Sort/Merge Utility</td>
<td>Any</td>
<td>Trend analysis, reporting</td>
</tr>
<tr>
<td></td>
<td>Assembler H</td>
<td>V2</td>
<td>Message table, installation-wide exit</td>
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<tr>
<td></td>
<td>SSP</td>
<td>V3R4.1</td>
<td>Network gateway accounting data</td>
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<td>V4R3</td>
<td>Network session accounting data</td>
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<td>NCP</td>
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<td>Network gateway accounting data</td>
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<td>NCP</td>
<td>V5R4</td>
<td>NPSI and XI data collection</td>
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<td>V6R1</td>
<td>Network collection by transmission priority, Frame Relay DTE support</td>
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<td>NCP</td>
<td>V6R2</td>
<td>Ethernet, Frame Relay DCE support</td>
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<td>NCP</td>
<td>V6R2F</td>
<td>ESCON(R) resources, network collection, ODL LAN data collection</td>
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<td>NCP</td>
<td>V7R1</td>
<td>IP over Token Ring data collection</td>
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<td>NCP</td>
<td>V7R3</td>
<td>Frame Relay over Token Ring, IP over Frame Relay and HPR data collection</td>
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<td>NCP</td>
<td>V7R5</td>
<td>ISDN line support, X.25 over 3746 data collection</td>
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</tbody>
</table>

### Compatibility

Tivoli NPM is supported only in conjunction with other NPM V2 licensed programs for NPM to NPM communication. NPM to NPM communication is not supported between NPM V1 and NPM V2.

### Planning Information

**Direct Customer Support:** Tivoli Services plans to provide fee-based services for Tivoli NPM. These services focus on a rapid installation and introduction of NetView Performance Monitor in a customer's information technology environment.

### Security, Auditability, and Control

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

The security and auditability features of the announced program are:

- **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.
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

Current Licensees

Current licensees of Tivoli NPM will receive this update from IBM Software Delivery and Fulfillment (SDF) automatically. This shipment of Release 6 is scheduled to be completed by December 15, 2000.

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 should specify:

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

For ordering information, refer to the following:

- Software Announcement 298-216, dated June 23, 1998
- Software Announcement 297-076, dated March 25, 1997
- Software Announcement 299-343, dated November 16, 1999
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Basic Machine-Readable Material

<table>
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<tr>
<th>Description</th>
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<th>Feature Number</th>
<th>Distribution Medium</th>
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<td>Base Package Release 6</td>
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<td>5758</td>
<td>3480 tape cartridge</td>
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<tr>
<td>Base Package Release 6</td>
<td>U.S. English</td>
<td>5754</td>
<td>4-mm tape</td>
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<tr>
<td>Base Package Release 5 Function</td>
<td>Japanese</td>
<td>5294</td>
<td>3480 tape cartridge</td>
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<tr>
<td>Base Package Release 5 Function</td>
<td>Japanese</td>
<td>5295</td>
<td>4-mm tape</td>
</tr>
<tr>
<td>Novell Feature</td>
<td>U.S. English</td>
<td>5757</td>
<td>3480 tape cartridge</td>
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<tr>
<td>Novell Feature</td>
<td>U.S. English</td>
<td>5753</td>
<td>4-mm tape</td>
</tr>
</tbody>
</table>

Release 6 functions of Tivoli NPM is available in U.S. English only. Release 5 functionality of Tivoli NPM with Japanese language will continue to be available for Tivoli NPM and can be obtained by ordering the Japanese media features as previously announced.

The Japanese language feature, which is at Release 5 level, cannot be used with the Release 6 level (U.S. English Only), as they are not compatible.

For ordering information on the base program, Tivoli NetView Performance Monitor, refer to:

- Software Announcement 298-216, dated June 23, 1998
- Software Announcement 297-076, dated March 25, 1997
- Software Announcement 299-343, dated November 16, 1999
- Software Announcement 200-354, dated October 3, 2000

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.

Release 6 contains publications in U.S. English only.

Title | Order Number
------|--------------
NPM Concepts and Planning | GH19-6961
NPM User’s Guide | SH19-6962
NPM Console User’s Guide | SH19-4522
NPM Installation and Customization | SH19-6964
NPM Reference | SH19-6965
NPM Messages and Codes | SH19-6966
NPM Console License Information | GH19-4527
NPM Licensed Program Specifications | GH19-6968
NPM Program Directory for Novell Feature | GI10-5585

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

Title | Order Number
------|--------------
Tivoli NetView Performance Monitor for OS/390 Unlicensed Publications | SBOF-8454

Withdrawal from Marketing Softcopy Publications CD Only

Displayable Softcopy Publications

The unlicensed NPM manuals in displayable softcopy form, no-charge feature number 7015, are being withdrawn from marketing effective December 5, 2000.

Licensed Documentation: The following licensed material will be available from IBM. To order, contact your IBM representative.

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

Title | Order Number
------|--------------
NPM Diagnosis | LY19-6381

Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.
Terms and Conditions

The terms for Tivoli NPM, as previously announced in the following software announcements, are unaffected by this announcement:

- Software Announcement 298-216, dated June 23, 1998
- Software Announcement 297-076, dated March 25, 1997
- Software Announcement 299-343, dated November 16, 1999

Support Line: No
Other Support: S/390®

Prices

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