Tivoli。 IBM Tivoli NetView for z/OS

Version 5 Release 3





Web Application User's Guide

Tivoli. IBM Tivoli NetView for z/OS

Version 5 Release 3





Web Application User's Guide

Note

Before using this information and the product it supports, read the information in "Notices" on page 71.

This edition applies to version 5, release 3 of IBM Tivoli NetView for z/OS (product number 5697-ENV) and to all subsequent versions, releases, and modifications until otherwise indicated in new editions. Make sure you are using the correct edition for the level of the product.

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About this publication

The IBM[®] Tivoli[®] NetView[®] for z/OS[®] product provides advanced capabilities that you can use to maintain the highest degree of availability of your complex, multi-platform, multi-vendor networks and systems from a single point of control. This publication, the *IBM Tivoli NetView for z/OS Web Application User's Guide*, provides information for the operator and system programmer on using the NetView Web application as the central point to manage their networks and systems.

Intended audience

This publication is for system console operators, network operators, and system programmers. Specific operator procedures are defined by the individual installation to meet local requirements.

Publications

This section lists publications in the IBM Tivoli NetView for z/OS library and related documents. It also describes how to access Tivoli publications online and how to order Tivoli publications.

IBM Tivoli NetView for z/OS library

The following documents are available in the Tivoli NetView for z/OS library:

- *Administration Reference*, SC31-8854, describes the NetView program definition statements required for system administration.
- *Application Programmer's Guide*, SC31-8855, describes the NetView program-to-program interface (PPI) and how to use the NetView application programming interfaces (APIs).
- Automated Operations Network Customization Guide, SC31-8871, describes how to tailor and extend the automated operations capabilities of the NetView Automated Operations Network (AON) component, which provides event-driven network automation.
- *Automated Operations Network User's Guide*, GC31-8851, describes how to use the Automated Operations Network component to improve system and network efficiency.
- *Automation Guide*, SC31-8853, describes how to use automated operations to improve system and network efficiency and operator productivity.
- *Command Reference Volume 1*, SC31-8857, and *Command Reference Volume 2*, SC31-8858, describe the NetView commands, which can be used for network and system operation and in command lists and command procedures.
- *Customization Guide*, SC31-8859, describes how to customize the NetView product and points to sources of related information.
- *Data Model Reference*, SC31-8864, provides information about the Graphic Monitor Facility host subsystem (GMFHS), SNA topology manager, and MultiSystem Manager data models.
- *Installation: Configuring Additional Components*, SC31-8874, describes how to configure NetView functions beyond the base functions.
- *Installation: Configuring Graphical Components,* SC31-8875, describes how to install and configure the NetView graphics components.

- *Installation: Getting Started*, SC31-8872, describes how to install and configure the NetView base functions.
- *Installation: Migration Guide*, SC31-8873, describes the new functions provided by the current release of the NetView product and the migration of the base functions from a previous release.
- Installation: Configuring the Tivoli NetView for z/OS Enterprise Agents, SC31-6969, describes how to install and configure the Tivoli NetView for z/OS enterprise agents.
- *Messages and Codes Volume 1 (AAU-DSI),* SC31-6965, and *Messages and Codes Volume 2 (DUI-IHS),* SC31-6966, describe the messages for the NetView product, the NetView abend codes, the sense codes that are shown in NetView messages, and generic alert code points.
- *MultiSystem Manager User's Guide*, GC31-8850, describes how the NetView MultiSystem Manager component can be used in managing networks.
- *NetView Management Console User's Guide*, GC31-8852, provides information about the NetView management console interface of the NetView product.
- *Programming: Assembler*, SC31-8860, describes how to write exit routines, command processors, and subtasks for the NetView product using assembler language.
- *Programming: Pipes,* SC31-8863, describes how to use the NetView pipelines to customize a NetView installation.
- *Programming: PL/I and C*, SC31-8861, describes how to write command processors and installation exit routines for the NetView product using PL/I or C.
- Programming: REXX and the NetView Command List Language, SC31-8862, describes how to write command lists for the NetView product using the Restructured Extended Executor language (REXX[™]) or the NetView command list language.
- *Resource Object Data Manager and GMFHS Programmer's Guide*, SC31-8865, describes the NetView Resource Object Data Manager (RODM), including how to define your non-SNA network to RODM and use RODM for network automation and for application programming.
- *Security Reference*, SC31-8870, describes how to implement authorization checking for the NetView environment.
- SNA Topology Manager Implementation Guide, SC31-8868, describes planning for and implementing the NetView SNA topology manager, which can be used to manage subarea, Advanced Peer-to-Peer Networking[®], and TN3270 resources.
- *Troubleshooting Guide*, LY43-0093, provides information about documenting, diagnosing, and solving problems that might occur in using the NetView product.
- *Tuning Guide*, SC31-8869, provides tuning information to help achieve certain performance goals for the NetView product and the network environment.
- *User's Guide*, GC31-8849, describes how to use the NetView product to manage complex, multivendor networks and systems from a single point.
- *Web Application User's Guide*, SC32-9381, describes how to use the NetView Web application to manage complex, multivendor networks and systems from a single point.
- *Licensed Program Specifications*, GC31-8848, provides the license information for the NetView product.

Prerequisite publications

To read about the new functions offered in this release, see the *IBM Tivoli NetView* for *z*/OS *Installation: Migration Guide*.

For information about how the NetView for z/OS product interacts with the IBM Tivoli Monitoring product, see the following IBM Tivoli Monitoring publications:

- *Introducing IBM Tivoli Monitoring*, GI11-4071, introduces the components, concepts, and function of IBM Tivoli Monitoring.
- *IBM Tivoli Monitoring: Upgrading from Tivoli Distributed Monitoring*, GC32-9462, provides information on how to upgrade from IBM Tivoli Distributed Monitoring.
- *IBM Tivoli Monitoring: Installation and Setup Guide,* GC32-9407, provides information about installing and setting up IBM Tivoli Monitoring.
- *IBM Tivoli Monitoring User's Guide*, SC32-9409, which complements the IBM Tivoli Enterprise[™] Portal online help, provides hands-on lessons and detailed instructions for all Tivoli Enterprise Portal functions.
- *IBM Tivoli Monitoring Administrator's Guide*, SC32-9408, describes the support tasks and functions required for the IBM Tivoli Enterprise Portal Server and clients.
- *Configuring IBM Tivoli Enterprise Monitoring Server on z/OS*, SC32-9463, describes how to configure and customize the IBM Tivoli Enterprise Monitoring Server running on a z/OS system.
- *IBM Tivoli Monitoring Problem Determination Guide*, GC32-9458, provides information and messages to use in troubleshooting problems with the software.
- *Exploring IBM Tivoli Monitoring*, SC32-1803, provides a series of exercises for exploring IBM Tivoli Monitoring.
- *IBM Tivoli Universal Agent User's Guide*, SC32-9459, introduces the IBM Tivoli Universal Agent.
- *IBM Tivoli Universal Agent API and Command Programming Reference Guide,* SC32-9461, explains how to implement the IBM Tivoli Universal Agent APIs and describes the API calls and command-line interface commands.

Related publications

For information about the NetView Bridge function, see *Tivoli NetView for OS/390 Bridge Implementation*, SC31-8238-03 (available only in the V1R4 library).

You can find additional product information on the NetView for z/OS Web site:

http://www.ibm.com/software/tivoli/products/netview-zos/

Accessing terminology online

The *Tivoli Software Glossary* includes definitions for many of the technical terms related to Tivoli software. The *Tivoli Software Glossary* is available at the following Tivoli software library Web site:

http://publib.boulder.ibm.com/tividd/glossary/tivoliglossarymst.htm

The IBM Terminology Web site consolidates the terminology from IBM product libraries in one convenient location. You can access the Terminology Web site at the following Web address:

http://www.ibm.com/software/globalization/terminology/

For a list of NetView for z/OS terms and definitions, refer to the IBM Terminology Web site. The following terms are used in this library:

NetView

For the following products:

- Tivoli NetView for z/OS version 5 release 3
- Tivoli NetView for z/OS version 5 release 2
- Tivoli NetView for z/OS version 5 release 1
- Tivoli NetView for OS/390[®] version 1 release 4
- **MVS[™]** For z/OS operating systems

MVS element

For the BCP element of the z/OS operating system

CNMCMD

For CNMCMD and its included members

CNMSTYLE

For CNMSTYLE and its included members

PARMLIB

For SYS1.PARMLIB and other data sets in the concatenation sequence

The following IBM names replace the specified Candle[®] names:

IBM Tivoli Monitoring Services For OMEGAMON[®] platform

- IBM Tivoli Enterprise Monitoring Agent For Intelligent Remote Agent
- **IBM Tivoli Enterprise Monitoring Server** For Candle Management Server

IBM Tivoli Enterprise Portal For CandleNet Portal

IBM Tivoli Enterprise Portal Server For CandleNet Portal Server

Unless otherwise indicated, references to programs indicate the latest version and release of the programs. If only a version is indicated, the reference is to all releases within that version.

When a reference is made about using a personal computer or workstation, any programmable workstation can be used.

Using NetView for z/OS online help

NetView for z/OS mainframe online help is available for the following areas, depending on your installation and configuration:

- · General help and component information
- Command help
- Message help
- Sense code information
- Recommended actions

Using LookAt to look up message explanations

LookAt is an online facility that you can use to look up explanations for most of the IBM messages you encounter, as well as for some system abends (an abnormal end of a task) and codes. Using LookAt to find information is faster than a conventional search because in most cases LookAt goes directly to the message explanation. You can use LookAt from the following locations to find IBM message explanations for z/OS elements and features, $z/VM^{\text{®}}$, VSE/ESA^{TM} , and Clusters for $AIX^{\text{®}}$ and Linux[®]:

- The Internet. You can access IBM message explanations directly from the LookAt Web site at http://www.ibm.com/eserver/zseries/zos/bkserv/lookat/.
- Your z/OS TSO/E host system. You can install code on your z/OS or z/OS.e systems to access IBM message explanations, using LookAt from a TSO/E command line (for example, TSO/E prompt, ISPF, or z/OS UNIX[®] System Services running OMVS).
- Your Microsoft[®] Windows[®] workstation. You can install code to access IBM message explanations on the *z/OS Collection* (SK3T-4269), using LookAt from a Microsoft Windows DOS command line.
- Your wireless handheld device. You can use the LookAt Mobile Edition with a handheld device that has wireless access and an Internet browser (for example, Internet Explorer for Pocket PCs, Blazer, or Eudora for Palm OS, or Opera for Linux handheld devices). Link to the LookAt Mobile Edition from the LookAt Web site.

You can obtain code to install LookAt on your host system or Microsoft Windows workstation from a disk on your *z/OS Collection* (SK3T-4269), or from the LookAt Web site (click **Download**, and select the platform, release, collection, and location that suit your needs). More information is available in the LOOKAT.ME files available during the download process.

Accessing publications online

The documentation CD contains the publications that are in the product library. The publications are available in Portable Document Format (PDF), HTML, and BookManager[®] formats. Refer to the readme file on the CD for instructions on how to access the documentation.

An index is provided on the documentation CD for searching the Tivoli NetView for z/OS library. If you have Adobe Acrobat on your system, you can use the Search command to locate specific text in the library. For more information about using the index to search the library, see the online help for Acrobat.

IBM posts publications for this and all other Tivoli products, as they become available and whenever they are updated, to the Tivoli Information Center Web site at http://publib.boulder.ibm.com/infocenter/tivihelp/v3r1/index.jsp.

In the Tivoli Information Center window, click **Tivoli product manuals**. Click the letter that matches the first letter of your product name to access your product library. For example, click **N** to access the Tivoli NetView for z/OS library.

Note: If you print PDF documents on other than letter-sized paper, set the option in the **File** → **Print** window that enables Adobe Reader to print letter-sized pages on your local paper.

Ordering publications

You can order many Tivoli publications online at the following Web address:

http://www.elink.ibmlink.ibm.com/publications/servlet/pbi.wss

You can also order by telephone by calling one of these numbers: • In the United States: 800-879-2755 • In Canada: 800-426-4968

In other countries, contact your software account representative to order Tivoli publications. To locate the telephone number of your local representative, perform the following steps:

1. Go to the following Web address:

http://www.elink.ibmlink.ibm.com/public/applications/publications/ cgibin/pbi.cgi

- **2**. Select your country from the list and click **Go**. The Welcome to the IBM Publications Center window is displayed.
- **3**. On the left side of the window, click **About this site** to see an information page that includes the telephone number of your local representative.

Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. Standard shortcut and accelerator keys are used by the product and are documented by the operating system. Refer to the documentation provided by your operating system for more information.

For additional information, see the Accessibility appendix in the User's Guide.

Tivoli technical training

For Tivoli technical training information, refer to the following IBM Tivoli Education Web site at http://www.ibm.com/software/tivoli/education.

Support information

If you have a problem with your IBM software, you want to resolve it quickly. IBM provides the following ways for you to obtain the support you need:

Online

Go to the IBM Software Support site at http://www.ibm.com/software/ support/probsub.html and follow the instructions.

IBM Support Assistant

The IBM Support Assistant (ISA) is a free local software serviceability workbench that helps resolve questions and problems with IBM software products. The ISA provides quick access to support-related information and serviceability tools for problem determination. To install the ISA software, go to http://www.ibm.com/software/support/isa.

Problem determination guide

For more information about resolving problems, see the *IBM Tivoli NetView* for *z*/OS Troubleshooting Guide.

Downloads

Clients and agents, demonstrations of the NetView product, and several free NetView applications that you can download are available at the NetView for z/OS Web site:

http://www.ibm.com/software/tivoli/products/netview-zos/

These applications can help with the following tasks:

- Migrating customization parameters from earlier releases to the current style sheet
- Getting statistics for your automation table and merging the statistics with a listing of the automation table
- Displaying the status of a job entry subsystem (JES) job or canceling a specified JES job
- Sending alerts to the NetView program using the program-to-program interface (PPI)
- · Sending and receiving MVS commands using the PPI
- Sending Time Sharing Option (TSO) commands and receiving responses

Conventions used in this publication

This publication uses several conventions for special terms and actions and for operating system-dependent commands and paths.

Typeface conventions

This publication uses the following typeface conventions:

Bold

- Lowercase commands and mixed case commands that are otherwise difficult to distinguish from surrounding text
- Interface controls (check boxes, push buttons, radio buttons, spin buttons, fields, folders, icons, list boxes, items inside list boxes, multicolumn lists, containers, menu choices, menu names, tabs, property sheets), labels (such as **Tip:**, and **Operating system considerations**:)
- · Keywords and parameters in text

Italic

- · Citations (examples: titles of publications, diskettes, and CDs
- Words defined in text (example: a nonswitched line is called a *point-to-point line*)
- Emphasis of words and letters (words as words example: "Use the word *that* to introduce a restrictive clause."; letters as letters example: "The LUN address must start with the letter *L*.")
- New terms in text (except in a definition list): a *view* is a frame in a workspace that contains data.
- Variables and values you must provide: ... where myname represents...

Monospace

- · Examples and code examples
- File names, programming keywords, and other elements that are difficult to distinguish from surrounding text
- Message text and prompts addressed to the user
- Text that the user must type
- Values for arguments or command options

Operating system-dependent variables and paths

For workstation components, this publication uses the UNIX convention for specifying environment variables and for directory notation.

When using the Windows command line, replace *\$variable* with *%variable*% for environment variables and replace each forward slash (/) with a backslash (\) in directory paths. The names of environment variables are not always the same in the Windows and UNIX environments. For example, *%*TEMP% in Windows environments is equivalent to *\$*TMPDIR in UNIX environments.

Note: If you are using the bash shell on a Windows system, you can use the UNIX conventions.

Chapter 1. Managing Your Network from a Web Browser

You can manage your network using the NetView for z/OS Web application, which provides all the primary NetView command and control facilities from a standard browser. Use this support to manage your SNMP, TCP/IP, and DVIPA environments; to browse events, logs, and sysplex topology data; and to access the NetView commands, online help, and 3270 console. For installation and configuration information, see the *netview_installation_dir/doc/* znetview_webapp_readme_en.htm file and the *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* manual.

Starting the Web Application

To access the NetView Web server, follow these steps:

1. Go to the following Web address, where *Web_application_server:port* is the TCP host name and port number of the HTTPS server on which the NetView Web application is installed, netview is the NetView Web application context root, and *domain_ID* is the domain ID of the NetView for z/OS program to which you want to connect. The default port number is 9043 for a secure connection using WebSphere[®] Application Server and 9943 for a secure connection using the embedded version of the IBM WebSphere Application Server v6.1.

https://Web_application_server:port/netview/domain_ID/

2. In the Web application signon view that is displayed, type a valid NetView operator ID (user name) and password and click **OK**. The ID and password are verified and cached on the Web application server for the remainder of the session.

When you enter a valid operator ID and password, the Web application opens by default with the About information displayed in the work area, which is shown in Figure 1 on page 2.

Notes:

- 1. The initial task or information displayed in the Web application can be user configured; see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.
- 2. Do not open multiple Web browsers connecting to the same NetView domain using the same user ID.



Figure 1. Web Application with About Information

The portfolio, which is on the left side, lists the tasks you can perform using the Web application. When you click a task in the portfolio, the task is displayed either in the work area, which is on the right side, or in a new window. For more information about the parts of the Web application, see "Navigating the Web Application."

Navigating the Web Application

The NetView Web application is a browser-based interface that you can use to manage your network. The interface has the following parts:

- Banner
- Task bar
- Portfolio
- Work area

Banner

The banner, shown in Figure 2, is across the top of the interface and is always displayed. It contains the product name.



Figure 2. Banner

Task Bar

The task bar, shown in Figure 3, is immediately below the banner and is always displayed.

| Ę | About | (ł |
|---|-------|----|
| | | |

Figure 3. Task Bar

The task bar has the following navigation controls:

Show/Hide all tasks button

Shows or hides the Task Manager view (the All Tasks task), which lists the open tasks. Use the Task Manager view, which is shown in Figure 4, to switch from one task to another by selecting a task and clicking **Switch Task** or to close a task by clicking **End Task**.

| [| ➡ All Tasks | | | | X | |
|----|-----------------------|-----------------------------|-----------|--|---|--|
| Та | sk Mana | iger | | | | |
| (| End Task Switch Task | | | | | |
| | Select | Task Name | Task Icon | | | |
| | ۲ | About | | | | |
| | 0 | Manage IP Packet Trace Data | | | | |
| | O Issue SNMP Commands | | | | | |
| | | Total: 3 | | | | |
| | | | | | | |

Figure 4. Task Manager

Task buttons

Show the tasks that are open, one button for each open task. To display an open task in the work area, click the appropriate task button. When you first sign on to the NetView Web application, the About information is displayed in the work area and the **About** task button is shown in the task bar.

Sign Off button

Signs you off the NetView Web application. Clicking this button removes your credentials from the Web application server. The next time you need to access the NetView for z/OS program, a prompt for a NetView user ID and password might be presented. Signing off has no effect on your operator task in the NetView for z/OS program; your operator task is not logged off or disconnected.

Portfolio

The portfolio, which is on the left side of the interface under the task bar and is shown in Figure 5 on page 4, shows the tasks you can perform. The portfolio title bar shows the NetView domain to which you are connected and the NetView user ID you used to sign on.

Note: Some tasks might be defined as reserved tasks; if so, these tasks are displayed in the portfolio only for the users who are authorized to access them. For information about defining reserved tasks and the authorization for using these tasks, see *IBM Tivoli NetView for z/OS Installation: Configuring*

Additional Components.



Figure 5. Portfolio

The portfolio title bar has the following navigation control:

Show/Hide Task List button

Shows or hides the portfolio. When the portfolio is hidden, the portfolio title bar is still shown but contains only the **Show Task List** button.

If all the tasks are not displayed, expand My Tasks in the portfolio.

To open a task, click the task in the portfolio. All tasks except tasks that are launched are displayed in the work area and a task button representing the task is added to the task bar. The following launched tasks are displayed in a new window and are not added to the task bar: Launch Procedures, Launch MIB Browser, and Launch Real Time Poller.

The default portfolio contains the following tasks:

Browse Events

View events in the Common Event Infrastructure (CEI) database. See Chapter 3, "Browsing Events," on page 21.

Browse Sysplex Topology

View sysplex TCP/IP stack information such as z/OS images and TCP/IP stack names and addresses. See Chapter 4, "Browsing Sysplex Topology," on page 25.

Browse Logs

Activate the NetView for z/OS log facility. See Chapter 5, "Browsing Logs," on page 27.

Open Command Console

Submit the NetView for z/OS command or command list. See Chapter 6, "Opening the Command Console," on page 29.

Open NetView Help

Access the NetView for z/OS online help for messages and commands. See Chapter 7, "Opening NetView Help," on page 31.

Launch Procedures

Access a user-defined uniform resource identifier (URI). See Chapter 8, "Launching Procedures," on page 33.

View DVIPA Status

Display the status of dynamic virtual IP addresses. See Chapter 9, "Viewing DVIPA Status," on page 35.

View DVIPA Distributors

Access information about specific dynamic virtual IP addressing distributors, targets, and connections. See Chapter 10, "Viewing DVIPA Distributors," on page 39.

Manage TCP/IP Connections

Manage (query or purge) TCP/IP connection data for stacks known to the NetView for z/OS program. View performance data known to the IBM Tivoli OMEGAMON XE for Mainframe Networks program for a specific stack and TCP/IP connection. See Chapter 11, "Managing TCP/IP Connections," on page 43.

Manage IP Packet Trace Data

Manage (query, format, or purge) IP packet trace data for stacks known to the NetView for z/OS program. See Chapter 12, "Managing IP Packet Trace Data," on page 49.

Load/Unload SNMP MIBs

Load SNMP MIBs into the Web SNMP service or unload MIBs that were previously loaded. See Chapter 13, "Loading and Unloading SNMP MIBs," on page 53.

Launch MIB Browser

View information for MIB objects and groups for a specified host. See Chapter 14, "Launching the MIB Browser," on page 55.

Launch Real Time Poller

Poll and display a real-time graph of MIB-based performance data related to a host. See Chapter 15, "Launching the Real Time Poller," on page 57.

Issue SNMP Commands

Issue one of the following SNMP commands: SNMP Get, SNMP Set, SNMP Walk, SNMP GetNext, SNMP GetBulk, SNMP BulkWalk, SNMP Trap, or SNMP Remote Ping. See Chapter 16, "Issuing SNMP Commands," on page 61.

Open 3270 Console

Access 3270 panels from the browser without using a terminal emulator. See Chapter 17, "Opening the 3270 Console," on page 63.

Set User Preferences

Set preferences for this user. See Chapter 2, "Setting User Preferences," on page 13.

- **About** Display the version, release, and build level of the NetView for z/OS program.
- **Note:** The Load/Unload SNMP MIBs, Launch MIB Browser, Launch Real Time Poller, and Issue SNMP Commands tasks require the SNMP server to be running. For information about configuring the SNMP server, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* and the *netview_installation_dir/doc/znetview_webapp_readme_en.htm* file.

Work Area

The work area, which is located to the right of the portfolio under the task bar, is where your primary interaction with the Web application occurs. The interface has only one work area. To resize the work area, take one of the following actions:

- Place the cursor on the border between the portfolio and the work area and drag the border to the left or the right.
- · Close the portfolio.
- Resize the browser window.

The work area includes a title bar that shows the name of the task you are currently displaying. By default, the About information is initially displayed in the work area. The work area title bar has the following navigation controls, which are shown in Figure 6.

i ? 🗙

Figure 6. Work Area Title Bar Navigation Controls

Show or Hide Field Descriptions button (i)

Displays or hides the Field Description Assistant, which provides field-level help for fields and buttons. The Field Description Assistant is displayed on the left side of the work area. This button is not available when the About information or the Task Manager view is displayed. For more information about the Field Description Assistant, see "Field Description Assistant" on page 10.

Show or Hide Task Assistant button (?)

Displays or hides the Task Assistant, which provides help for the task or view displayed in the work area. The Task Assistant is displayed on the right side of the work area. This button is not available when the About information or the Task Manager view is displayed. For more information about the Task Assistant, see "Task Assistant" on page 11.

Close Task button (X)

Closes the task that is displayed in the work area.

When you click a task in the portfolio, the view for that task is displayed in the work area. The work area has a navigation control known as the breadcrumb trail, which is shown in Figure 7. It is displayed just below the work area title bar. The breadcrumb trail shows the views through which you have navigated to reach the current view in the work area. The last view listed in the breadcrumb trail is the current view. To return to any view shown in the breadcrumb trail, click the view title in the breadcrumb trail; the view is displayed in the work area.

Note: To navigate the Web application, use only the buttons provided in the Web application interface. If you use the Web browser navigation buttons (such as **Back**, **Forward**, **Refresh**, or **Stop**), you can get inconsistent results.

| Manage IP Packet Trace Data | i ? 🗙 |
|---|-------|
| Select Stack 🕨 Query IP Packet Trace Data 🐌 View IP Packet Trace Data | |

Figure 7. Breadcrumb Trail

Views contain common elements such as entry fields, tables, and buttons. Some views contain entry fields to filter requests for data. When you specify information

for a task, you must provide information for any field marked with an asterisk (*); fields marked with * are required. Other views display data in tables; for more information about tables, see "Working with Tables."

The following buttons are common to most tasks:

OK button

Submits a request for data. If the request is successful, the resulting view is displayed in the work area. If the request is not successful, the entry field in error is marked with a red indicator.

Restore Defaults button

Replaces the current values for the view displayed in the work area with the IBM-supplied values.

Note: When you restore defaults for the Set User Preferences task, all the values in the task are replaced with the IBM-supplied values, not just the values displayed in the work area.

Back button

Returns the previous view to the work area.

Close Task button

Closes the task that is displayed in the work area. You can also close the task by clicking the **Close Task** button (**X**) on the work area title bar.

Working with Tables

Data from the NetView for z/OS program is frequently displayed in tables. The following topics describe how to work with tables:

- "Navigating Tables"
- "Filtering Tables" on page 9
- "Sorting Tables" on page 10

Navigating Tables

Tables have the following parts:

- Operator toolbar
- Table action toolbar
- · Column headers and rows
- Footer

Operator Toolbar

The operator toolbar, which is at the top of the table and is shown in Figure 8, has buttons to refresh the data and to navigate to additional views.

| 2 II | Open Incident |
|--------|---------------|
| NS/ 00 | |

Figure 8. Operator Toolbar

Many tables have the following operator toolbar buttons:

Refresh button

Refreshes the table data and resets the refresh timer, if available. You can hold the cursor over the Refresh button to see the time stamp when the table was last updated and the current setting of the refresh rate, shown in Figure 9 on page 8. To update the refresh rate, use the Set User Preferences

task.



Figure 9. Refresh Status

Suspend/Resume

Suspends or resumes automatic refreshing of the table data. For a list of the views that can be automatically refreshed, see the Task Assistant for the Set User Preferences task.

Open Incident button

Displays the Open Incident view so that you can open an incident report for this task in your incident management application. This button is available only when you have selected one row of data and the incident management application is configured. For a list of the tasks where you can open an incident report, see Chapter 18, "Opening Incident Reports," on page 65.

Table Action Toolbar

A table action toolbar, which is immediately below the operator toolbar and is shown in Figure 10, provides standard actions that you can use to organize and display data in a table.



Figure 10. Table Action Toolbar

The following standard table actions are available from the table action toolbar, both as buttons and from the table action list; for details about these table actions, see the Task Assistant:

- Select All
- Deselect All
- · Show Filter Row or Hide Filter Row
- Clear All Filters
- Edit Sort
- · Clear All Sorts
- Collapse Table or Expand Table
- Enable Inline Action Bar or Disable Inline Action Bar
- Configure Columns

Column Headers and Rows

Column headers describe the data in the table. Each row in the table represents a unique piece of data, for example, an event, a network log message, a connection, or a dynamic virtual IP address (DVIPA). For details about the data displayed in a specific view, see the Task Assistant. To set the number of rows displayed in a table before scrolling is enabled, use the Set User Preferences task.

Table Footer

The table footer, which is shown in Figure 11, is displayed at the bottom of a table.

Matched Records: 15 Total: 15 Filtered: 10 Selected: 1 Last Update: 08/29/05 08:54:11 E

Figure 11. Table Footer

Most tables include the following fields in the table footer:

Matched Records

Indicates the number of records (rows of data) matching the filter criteria. If this number is greater than the total number of records displayed in the table, you might need to change your filter criteria.

Total Indicates the number of rows displayed in the table.

Filtered

Indicates the number of rows matching the active filters in the table. If no filters are active, this value is equal to the value of **Total**.

Selected

Indicates the number of rows in the table that are currently selected.

Last Update

Indicates the time stamp when the data in the table was last refreshed. To update the time zone or date and time format used when displaying time stamps in the Web application, use the Set User Preferences task.

Filtering Tables

You can filter the data in a table by defining filters for one or more data columns. Filtering the table decreases the number of rows that are displayed and makes it easier for you to focus on specific data.

To define filters, you must first display the filter row, either by clicking the **Show Filter Row** button or by clicking **Show Filter Row** in the table action list and then clicking **Go**. Show Filter Row is one of the standard table actions.

A row that shows the existing filters is displayed immediately after the column headers. For any column without an existing filter, the word Filter is shown. If a filter exists, a check box to the left of the filter definition indicates whether the filter is active (checked) or inactive (not checked).

Before you can define or change a filter for a data column in the table, you must display the filter definition area. To do that, click the existing filter for the column that you want to filter, or, if no filter exists, click Filter.

To define or change a filter for a data column in a table:

- 1. Display the filter definition area by clicking the defined filter or the word Filter.
- 2. Specify the filter using the displayed fields. See the Task Assistant for information about the fields that are displayed for different types of columns.

Note: For date and time fields, the format of date and time is determined by the date and time formats specified in the user preferences.

3. Click OK.

When a filter is first defined, it is active. To deactivate an active filter, remove the check from the check box to the left of the filter for a column. To activate an inactive filter, place a check in the check box to the left of the filter for a column.

To remove an existing filter from a column, open the filter definition area, delete the information from the fields, and then click **OK**. The filter row now shows Filter in that column.

To remove the existing filters from all columns in a table, either click **Clear All Filters** or select **Clear All Filters** in the table action list and then click **Go**.

Sorting Tables

You can use the Edit Sort function to sort a maximum of three columns in a table at a time. To use this function, first display the sort edit area, either by clicking **Edit Sort** or by selecting **Edit Sort** in the table action list and clicking **Go**. Edit Sort is one of the standard table actions.

To sort the table, specify the first column to be used for sorting, and, optionally, the second and third columns to be used, and then click **OK**.

Remove sorting criteria from all columns either by clicking **Clear All Sorts** or by selecting **Clear All Sorts** in the table action list and then clicking **Go**.

You can perform a quick sort on any column by clicking the sort symbol (^), which is to the right of the column name.

Note: If you do a quick sort, the existing sorting criteria are cleared and the data in the table is sorted in ascending order of the selected column.

After you click the sort symbol, you can toggle between ascending and descending sorts. When the sort symbol points up, the column is sorted in ascending order. When the sort symbol points down, the column is sorted in descending order.

Using the Online Help

The following topics describe the two types of online help for the Web application. You can display either type singly or both types at the same time.

- "Field Description Assistant"
- "Task Assistant" on page 11

Field Description Assistant

The Field Description Assistant, which is displayed on the left side of the work area and is shown in Figure 12 on page 11, provides field-level help for fields and buttons as you tab from one field or button to another field or button. To display or hide the Field Description Assistant, click the **Show Field Descriptions** or **Hide Field Descriptions** button (labeled **i**) on the work area title bar.

| | Manage TCP/II | P Connections | | | i ? 🗙 |
|---------------------------------------|---------------|---------------|------------|----------|--------------------------------|
| | Select Stack | | | | |
| K K K K K K K K K K K K K K K K K K K | | Query Conne | ction Data | Pu | irge Connecti Select Actior |
| Select a stack and an | Select ^ | TCP Name ^ | Type 🗠 | Domain ^ | Policy Nam |
| action against the stack. | 0 | TCPIP2 | TCPIP | A01NV | TVT2002 |
| | 0 | TCPIP2B | TCPIP | A01NV | TVT2002B |
| | 0 | TCPIP2C | TCPIP | A01NV | TVT2002C |

Figure 12. Field Description Assistant

Task Assistant

The Task Assistant, which is displayed on the right side of the work area and is shown in Figure 13, provides help for the task or view displayed in the work area, including information about any fields and navigation controls that are provided for the task or view. To display or hide the Task Assistant, click the **Show Task Assistant** or **Hide Task Assistant** button (labeled ?) on the work area title bar.

| Manage TCP/IP Connections | | | | | i ? 🗙 |
|---------------------------|---------------|------------|----------|--------------------------|--|
| Select Stack | | | | | 0 0 🗈 🗊 🖗 🖌 🗙 |
| ₹₹ | Query Conne | ction Data | Pu | rge Conne Select Acti | Select Stack Select a stack for querying or purging TCP/IP connection data. The table lists the stacks |
| Select ^ T | CP Name \land | Type ^ | Domain ^ | Policy Na | known to the NetView for z/OS |
| 0 TC | CPIP2 | TCPIP | A01NV | TVT2002 | program. |
| О ТС | CPIP2B | TCPIP | A01NV | TVT2002E | Resource discovery discovers |
| 0 TC | CPIP2C | TCPIP | A01NV | TVT2002C | all local stacks known to the |
| О т (| CPIP2D | TCPIP | A01NV | TVT2002E | also discovers stacks from |

Figure 13. Task Assistant

The Task Assistant has the following navigation controls, which are shown in Figure 14:

🗘 🔶 🗈 🗊 🖗 🎸 🗙

Figure 14. Task Assistant Navigation Controls

Previous Topic button (<)

Displays the previous topic.

Next Topic button ()

Displays the next topic.

Table of Contents button

Displays or hides the table of contents for the Task Assistant.

Topic Index button

Displays or hides the index for the Task Assistant.

To search for a string in the topic index, type the string in the **Find** field and press Enter. If the string is found, the topic is highlighted and the associated help panel is displayed. To find the next occurrence in the topic index, place the cursor in the **Find** field and press Enter again. The next occurrence in the topic index is highlighted and the associated help panel is displayed.

Message Index button

Displays or hides the message index, which you can use to display help for messages.

To search for a string in the message index, type the string in the **Find** field and press Enter. If the string is found, the message is highlighted and the associated message help is displayed. To find the next occurrence in the message index, place the cursor in the **Find** field and press Enter again. The next occurrence in the message index is highlighted and the associated message help is displayed.

Search button

Displays or hides the **Find** field, which you can use to search the Task Assistant for a particular string of characters. To search for a string in a help panel, type the string in the **Find** field and press Enter. The Search Result area lists the help panels that contain the string for which you are looking. The first help panel in the list is highlighted and displayed; to display a different help panel, click it.

Hide Task Assistant button (X)

Hides the Task Assistant.

Chapter 2. Setting User Preferences

Click **Set User Preferences** in the portfolio to set your user preferences. User preferences are global default values that apply to the data displayed on all views. You can set the following kinds of preferences:

- General
- Auto refresh
- Date and time
- Event viewer
- Command console
- Theme
- Override

When you open the Set User Preferences task for the first time, you see IBM-supplied values provided for each of the user preferences. As you become more familiar with the product, you can modify the user preferences to better suit your needs. Any changes you make are saved and are available to you the next time you sign on to the Web application. For details about the user preferences, see the Task Assistant.

Note: When you restore defaults for this task, all values for the task are replaced with the IBM-supplied values, not just the values for the view displayed in the work area.

Setting General Preferences

Use the General Preferences view, shown in Figure 15, to set general preferences for all views. These include the severity and status indication, the number of rows to be displayed in tables, and the IP address representation. The severity and status indication affects how severity and status information is shown in Web application views. For more information about IP addresses, including compressed IP addresses, see the Task Assistant.

| Ð | Set User Preferences | i ? 🗙 |
|---|---|-------|
| User Preferences | | |
| * <u>General</u> | General Preferences | |
| Auto Refresh Date and Time Event Viewer Command Console Theme Override | *Severity and Status Indication Text, Color, and Icon ▼ *Number of Table Rows 15 *IPv4 Representation Standard Dotted Decimal ▼ Compress IPv4 Addresses IPv6 Representation Compress IPv6 Addresses | |
| OK Apply Re | estore Defaults Close Task | |

Figure 15. User Preferences: General Preferences

Setting Auto Refresh Preferences

Use the Auto Refresh Preferences view, shown in Figure 16, to set the preferences for the automatic refreshing of data, such as event or TCP/IP connection data. This determines whether the event, TCP/IP connection, sysplex topology, DVIPA, and connection performance data is refreshed automatically, and, if so, at what interval. You can also use this view to disable the automatic refreshing of data.

Note: For performance reasons, you might want to set the auto refresh rates for certain tasks to be greater than the data collection intervals for those tasks.

| • | Set User Preferences | i ? | X |
|--------------------------|---|-----|---|
| User Preferences | | | - |
| * <u>General</u> | Auto Refresh Preferences | | 1 |
| * Auto Refresh | *Auto Refresh Rate for Manage TCP/IP Connections | | |
| * Date and Time | 5 | | |
| * Event Viewer | 🗖 Disable Auto Refresh | | |
| * <u>Command Console</u> | *Auto Refresh Rate for Browse Sysplex Topology | | |
| * <u>Theme</u> | 5 | | |
| <u>Override</u> | 🗆 Disable Auto Refresh | | |
| | ∗Auto Refresh Rate for Browse Events <mark>5</mark> ☐ Disable Auto Refresh | | |
| | ∗Auto Refresh Rate for Manage DVIPA <mark>5 </mark> | | |
| | ∗Auto Refresh Rate for View Connection Performance Data 5 □ Disable Auto Refresh | | |
| OK Apply R | estore Defaults Close Task | | |

Figure 16. User Preferences: Auto Refresh Preferences

Setting Date and Time Preferences

Use the Date and Time Preferences view, shown in Figure 17, to set the time zone and the date and time formats for displaying time stamps.

Notes:

- 1. If you use the current host date and time formats, the format values are set at the NetView host using the DEFAULTS and OVERRIDE commands.
- 2. The date and time format examples shown in the **Date Time Order** field are based on the settings in the date and time format fields.

| • | Set User Preferences | i ? 🗙 |
|---|--|----------|
| User Preferences | | ▲ |
| * <u>General</u> * <u>Auto Refresh</u> * <u>Date and Time</u> * <u>Event Viewer</u> * <u>Command Console</u> * <u>Theme</u> <u>Override</u> | Date and Time Preferences ★Time Zone (GMT -5) EST America/New_York (GMT -5) Eastern Standard Time America/New_York Date Format Current Host Format Current Host Format Current Host Long Format ♥ Date Time Order © 08/26/05 11:02:55 © 11:02:55 08/26/05 | |
| OK Apply Re | estore Defaults Close Task | |
| | | · |

Figure 17. User Preferences: Date and Time Preferences

Setting Event Viewer Preferences

Use the Event Viewer Preferences view, shown in Figure 18, to set the number of events that are returned for each request and whether the quick filter toolbar is displayed in the Browse Events task.

| Ð | Set User Preferences | i ? 🗙 |
|--|--|----------|
| User Preferences | | A |
| General Auto Refresh Date and Time Event Viewer Command Console Theme Override | Event Viewer Preferences *Number of Events Returned 100 I Show Quick Filter Toolbar | |
| OK Apply Re | estore Defaults Close Task | |
| | | <u>_</u> |

Figure 18. User Preferences: Event Viewer Preferences

Setting Command Console Preferences

Use the Command Console Preferences view, shown in Figure 19, to set the number of previously issued commands and response area lines to be displayed before scrolling is enabled and whether the **NETVASIS** check box is available in the Open Command Console task.

| + | Set User Preferences | i ? 🗙 |
|---|---------------------------------------|-------|
| User Preferences | | |
| * <u>General</u> | Command Console Preferences | |
| * Auto Refresh | *Number of Previously Issued Commands | |
| * <u>Date and Time</u> * <u>Event Viewer</u> | *Number of Visible Lines | |
| * Command Console | | |
| * Theme | | |
| <u>Override</u> | M Display NETVASIS Shortcut | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| OK Apply Re | estore Defaults Close Task | |
| | | |

Figure 19. User Preferences: Command Console Preferences

Setting Theme Preferences

Use the Theme Preferences view, shown in Figure 20, to set the color theme for the Web application.

Note: This user preference does not affect colors set in the Open 3270 Console task.

| Set User Preferences | i | ? > |
|--|---|-----|
| User Preferences | | |
| * General * Auto Refresh • Date and Time • Event Viewer • Command Console * Theme Override | | |
| OK Apply Restore Defaults Close Task | | |
| | | |

Figure 20. User Preferences: Theme Preferences

Setting Override Preferences

Use the Override Preferences view, shown in Figure 21, to set preferences for all users connected to the same server, including whether users can modify their own preferences. Only authorized users can access this view.

Note: Authorization for the override capability is provided by the webmenu.prefoverride statement in the CNMSTYLE %INCLUDE member CNMSTWBM. For more information, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

| H | Set User Preferences | i ? X |
|-----------------------------|---|----------|
| User Preferences | | ^ |
| | Quarride Profesepoes | |
| * <u>General</u> | | _ |
| * Auto Refresh | General | _ |
| * Date and Time | | |
| * Event Viewer | User can modify status representation | |
| the Operation and Operation | User can modify maximum table rows | |
| * <u>command consule</u> | 🗹 User can modify IP address format | |
| * <u>Theme</u> | Auto Refresh | - |
| Override | | |
| | ✓ User can modify auto refresh rate for Manage TCP/IP Connections | |
| | ✓ User can modify disable auto refresh for Manage TCP/IP Connections | |
| | ✓ User can modify auto refresh rate for Browse Sypslex Topology | |
| | ✓ User can modify disable auto refresh for Browse Sypslex Topology | |
| | ✓ User can modify auto refresh rate for Browse Events | |
| | User can modify disable auto refresh for Browse Events | |
| | ✓ User can modify auto refresh rate for Manage DVIPA | |
| | 🗹 User can modify disable auto refresh for Manage DVIPA | |
| | 🗹 User can modify auto refresh rate for View Connection Performance Data | |
| | 🗹 User can modify disable auto refresh for View Connection Performance Data | a 🛛 |
| | Date and Time | - |
| | _ | |
| | l User can modify time zone | |
| | 🗹 User can modify date format | |
| | 🖬 Haar oon madifu time format | |

Figure 21. User Preferences: Override Preferences

Each preference that can be set in the Set User Preferences task can be restricted with a corresponding override check box. If a user with override authorization restricts other users from modifying a particular preference value, the other users inherit the value that the authorized user has for that preference.
Chapter 3. Browsing Events

Click **Browse Events** in the portfolio to view events in the Common Event Infrastructure (CEI) database.

The Common Event Infrastructure provides integration, consolidation, and distribution of events from many different programming environments. Diverse products that are not tightly coupled with one another can use this common infrastructure to integrate the management of events, thus providing an end-to-end view of enterprise resources and correlating events across domain boundaries. The Common Base Event specification defines the structure of the event information that is stored in the CEI database.

When you click **Browse Events**, the Event Viewer view showing a table listing events is displayed, similar to the table shown in Figure 22.

| Ð | | | Browse Events | i 1 | ? × |
|--------------|-------------|-------------------|--|--------|------|
| Event Viewer | | | | | |
| 2 II | Replace 🔻 | Open Incide | ent View Details | | _ |
| 40 < | 🦻 🚯 🔽 🛛 | Δ Δ 🛛 | | | |
| +++ + | ¥ 🖌 🗗 | | Select Action 🔽 Go | | |
| Select ^ | Severity ^ | Time Stamp 🔷 🔿 | Resource ^ | Туре 🔿 | Me |
| 0 | | 08/04/05 00:22:15 | B3088P0/SP,NAP/TP,DECNET/DEV,RALV4/DEV,A02_1/DEV | | SOI |
| 0 | SCritical 👘 | 08/04/05 00:22:15 | ALTNON12/COMC | | INIT |
| 0 | Oritical | 08/04/05 00:22:15 | TVT20_6C/SP,SP-APPL/TP,NETSP/DEV,TVT20_6C/DEV | | OPI |
| ۲ | Oritical | 08/04/05 00:22:15 | ALTNON12/COMC | | INIT |
| 0 | AWarning | 08/04/05 00:22:15 | B3088P0/SP,NAP/TP,DECNET/DEV,RALV4/DEV,A02_1/DEV | | SOI |
| 0 | Oritical | 08/04/05 00:22:14 | TVT20_6C/SP,SP-APPL/TP,NETSP/DEV,TVT20_6C/DEV | | OPI |
| 0 | Scritical 👘 | 08/04/05 00:22:14 | ALTNON12/COMC | | INIT |
| 0 | | 08/04/05 00:22:14 | B3088P0/SP,NAP/TP,DECNET/DEV,RALV4/DEV,A02_1/DEV | | SOI |
| 0 | SCritical | 08/04/05 00:22:14 | ALTNON12/COMC | | INIT |
| 0 | Oritical | 08/04/05 00:22:14 | SHAGGY/SP,FLCIP01/TP,IBM-99HK/DEV | | UN |
| 0 | Oritical | 08/04/05 00:22:14 | TVT20_6C/SP,SP-APPL/TP,NETSP/DEV,TVT20_6C/DEV | | OPI |
| 0 | Oritical | 08/04/05 00:22:14 | ALTNON12/COMC | | INIT |
| 0 | SCritical | 08/04/05 00:22:10 | SCRAPPY/SP,FLCIP01/TP,BAMBAM.T/DEV | | PR |
| | A | | | | sol. |

Figure 22. Event Viewer

A **Replace/Append** button determines whether new events replace the events in the table or are appended to the table. Click the button to see the list. The default is to replace events in the table.

You can use a quick filter toolbar, which is shown in Figure 23 on page 22, to easily filter the events by severity. The buttons correspond to the event severities. To filter the events of a particular severity, click the corresponding button. To display those events again, click the button again. To clear all the filters, click the first button in the quick filter toolbar.



Figure 23. Quick Filter Toolbar

If the quick filter toolbar is displayed, filtering for the **Severity** column is not available on the filter row. For more information about filtering tables, see"Filtering Tables" on page 9.

Note: You can set preferences for the event viewer, such as whether the quick filter toolbar is displayed; for more information, see Chapter 2, "Setting User Preferences," on page 13.

After you select an event, you can view more information about the event by clicking **View Details**. The Event Details view, which is shown in Figure 24, is displayed.

| Browse Events | | | | | | | | | |
|------------------------------|------------|---------------------|---------|-----------------------|--------|-------------------|---|--|--|
| Event Viewer 🌢 Event Details | | | | | | | | | |
| | | | | | | | | | |
| Event Reference | | | | | | | | | |
| Severity Time St | amp | Resource | Туре | Message | | | | | |
| Scritical 08/04/08 | 5 00:22:15 | ALTNON12/COMC | | INITIALIZATION FAILUR | E:RING | INTERFACE COUPLER | | | |
| Event Detaile | | | | | | | | | |
| Event Details | Value | | | | | | | | |
| Creation Time | 08/04/05 | 00:22:15 | | | | | | | |
| Severity | Ocritica 8 | | | | | | | | |
| Priority | Medium | | | | | | | | |
| Event ID | CE11DAD | 14A03313B920F3E4 | AD58DI | 6B93F5D | | | | | |
| Situation Category | ReportSit | uation | | | | | | | |
| Situation Scope | EXTERNA | ĄL | | | | | | | |
| | | | | | | 1 | | | |
| Reporter Compon | ent Inform | nation (Emitting Re | esource | e) | | | | | |
| Attribute | | | | | | | | | |
| Location Tune | INE IZ | N.AUTINY | | | | | | | |
| Application | A01N | 107 | | | | | | | |
| Execution Environm | nent TVT2 | 2002 | | | | | | | |
| Component | Tivoli | | | | | | | | |
| Component Type | TIVOI | | | | | | | | |
| Component ID Tun | o Drod | uatNama | | | | | - | | |

Figure 24. Event Details

The Event Details view shows details for the selected event, which is referenced at the top of the view. It includes information such as the creation time, severity, priority, event ID, and message text. This view also includes information about the resource that is reporting the event and the resource that is affected by the event. If applicable, NetView-unique information is displayed in the **NetView Extension** area of the view. These NetView-unique fields correspond to condition items, and this area is displayed only if one or more condition item values are set; for more information about condition items, see *IBM Tivoli NetView for z/OS Automation Guide*. If the vendor of the resource has provided expert advice describing actions you can take to try to correct the problem reported by an event, the information is displayed in the **Recommended Actions** area.

If an incident management application is configured and you either have selected an event in the Browse Events view or are displaying the Event Details view for an event, you can open an incident report by clicking **Open Incident**; for more information about opening an incident report, see Chapter 18, "Opening Incident Reports," on page 65.

Chapter 4. Browsing Sysplex Topology

Click **Browse Sysplex Topology** in the portfolio to view sysplex TCP/IP stack information such as z/OS images and TCP/IP stack names and addresses. The Sysplex IP Stack Topology view is displayed in the work area.

By navigating the tree in the left side of the view, you can browse the topology or display information related to a specific resource. The top level of the tree, **Sysplex IP Stack Topology**, represents the sysplex TCP/IP stack topology. If you expand the tree, you see the name of the sysplex. If you expand the sysplex, you see z/OS images defined within the sysplex. If you expand a specific z/OS image, you see the TCP/IP stacks associated with that z/OS image.

The icon beside each z/OS image or TCP/IP stack name indicates the last known status of the image or stack. To see additional information about a specific z/OS image, click the z/OS image in the tree. The information is displayed in the right side of the view.

To see additional information about a specific TCP/IP stack, click the stack in the tree. The TCP/IP stack information is displayed in the right side of the view, which looks similar to the view shown in Figure 25.

| | Browse Sysplex Topology i | | | | | | |
|--|---------------------------|--|----------|--|--|--|--|
| Sysplex IP Stack Topology | | | | | | | |
| Image: Construction of the second sec | | | | | | | |
| Select Action | | | | | | | |
| Sysplex IP Stack Topology | TCP/IP Stack Propertie | S | | | | | |
| | Attribute | Value | | | | | |
| | Status | Satisfactory | | | | | |
| | Time Stamp | 03/26/07 15:24:40 | | | | | |
| | TCP Name | TCPIP7 | | | | | |
| | Policy Name | Policy Name TVT2007 | | | | | |
| | XCF Group Name | | | | | | |
| TCPIP7D | Host Name | Host Name TVT2007.TIVLAB.RALEIGH.IBM.COM | | | | | |
| □ - <u>□ TVT2008</u> | Product | CS | | | | | |
| | Level | V1R8 | | | | | |
| | Primary IP Address | 9.42.45.136 | | | | | |
| | Primary IP Address Type | e IPv4 | | | | | |
| | Primary Interface | 9.42.45.136 | | | | | |
| | Primary Interface Type | IPv4 | | | | | |
| | IPv6 Address | 2002:92A:111:503:9:42:45:136 | | | | | |
| | IPv6 Address Type | IPv6 | | | | | |
| | IPv6 Host Name | TVT2007V6.TIVLAB.RALEIGH.IBM.COM | | | | | |
| | AT-TLS Enabled | false | | | | | |
| | IPSec Enabled | false | | | | | |
| | | Last Update: 11/21/07.00:1 | 1:39 EST | | | | |
| | | | | | | | |

Figure 25. Sysplex IP Stack Topology TCP/IP Stack Properties

Resource discovery can discover all local stacks for your NetView image. It can also discover stacks from other z/OS images within a sysplex if those z/OS images

are running the NetView for z/OS program and RTNDEF.BASE.AGENT statements are defined in CNMSTYLE %INCLUDE member CNMSTUSR or CxxSTGEN. For information about the RTNDEF.BASE.AGENT statement, see the *IBM Tivoli NetView for z/OS Administration Reference*.

Note: If you do not see all the stacks or data that you expect, ensure that your RTNDEF.BASE.AGENT statements are defined correctly.

From the Sysplex IP Stack Topology view, a number of actions are available from the table action list:

- You can view connection data and IP packet trace data for a TCP/IP stack. For more information about viewing connection data, see Chapter 11, "Managing TCP/IP Connections," on page 43. For more information about viewing IP packet trace data, see Chapter 12, "Managing IP Packet Trace Data," on page 49.
- You can ping the primary IP address and trace the route to the primary IP address, or you can ping the primary interface and trace the route to the primary interface.
- For z/OS images and TCP/IP stacks, you can open an incident report. For more information about opening an incident report, see Chapter 18, "Opening Incident Reports," on page 65.

Chapter 5. Browsing Logs

Click **Browse Logs** in the portfolio to activate the NetView log browse facility. The Browse NetView Log view, shown in Figure 26, is displayed:

| Browse NetView Log *NetView Domain *NetView Network ID | |
|--|--|
| *NetView Domain *NetView Network ID | |
| CO2NV * *NetView Log *RMTCMD Operator ID NETLOGA * | |
| Begin Time (hh:mm:ss) End Time (hh:mm:ss) End Time (hh:mm:ss) Other Filters | |
| Operator ID Domain ID Message ID Message Text OK Restore Defaults Close Task | |

Figure 26. Browse NetView Log

You can specify the filtering criteria for displaying network log records, such as the NetView domain or the network log, in the Browse NetView Log view. The following logs can be displayed:

- The active network log (NETLOGA)
- The inactive network log (NETLOGI)
- The primary network log (NETLOGP)
- The secondary network log (NETLOGS)
- Both the active and inactive network logs (NETLOGC)

If you use the default settings, the log results are displayed in a Display Log view that looks similar to view shown in Figure 27 on page 28.

| Ð | Browse Logs i ? X | | | | | | | | | | |
|-------------------|---|----------|-----------|-------------------|------------|---------------------------|--|--|--|--|--|
| Browse NetView Lo | Browse NetView Log 🕨 Display Log: NETLOGA | | | | | | | | | | |
| - | | | | | | | | | | | |
| | Go | | | | | | | | | | |
| Top Botto | Top Bottom Backward Forward | | | | | | | | | | |
| *** | 👾 🜮 🖉 📧 🕐 Select Action 🔽 Go | | | | | | | | | | |
| Sequence ^ | Task ^ | Domain 🗠 | Routing 🗠 | Time Stamp 🔷 🔿 | HDRMTYPE ^ | Message | | | | | |
| 1210 | AUTOIV1 | C02NV | | 07/14/05 10:18:37 | - | DSI208I TIME EXPIRATION | | | | | |
| 1211 | AUTOIV1 | C02NV | | 07/14/05 10:21:37 | - | DSI208I TIME EXPIRATION | | | | | |
| 1212 | AUTOIV1 | C02NV | | 07/14/05 10:24:37 | - | DSI208I TIME EXPIRATION - | | | | | |
| 1213 | AUTTCP9 | C02NV | | 07/14/05 10:26:17 | - | DSI208I TIME EXPIRATION | | | | | |
| 1214 | AUTTCP10 | C02NV | | 07/14/05 10:26:17 | - | DSI208I TIME EXPIRATION | | | | | |
| 1215 | AUTTCP8 | C02NV | | 07/14/05 10:26:19 | - | DSI208I TIME EXPIRATION | | | | | |
| 1216 | AUTTCP4 | C02NV | | 07/14/05 10:26:55 | - | DSI208I TIME EXPIRATION | | | | | |
| 1217 | AUTOIV1 | C02NV | | 07/14/05 10:27:37 | - | DSI208I TIME EXPIRATION | | | | | |
| 1218 | AUTOIV1 | C02NV | | 07/14/05 10:30:37 | - | DSI208I TIME EXPIRATION | | | | | |
| 1219 | AUTOIV1 | C02NV | | 07/14/05 10:33:37 | - | DSI208I TIME EXPIRATION | | | | | |
| 1220 | AUTTCP10 | C02NV | | 07/14/05 10:36:31 | - | DSI208I TIME EXPIRATION | | | | | |
| 1221 | AUTTCP9 | C02NV | | 07/14/05 10:36:31 | - | DSI208I TIME EXPIRATION | | | | | |
| 1222 | AUTTCP8 | C02NV | | 07/14/05 10:36:31 | - | DSI208I TIME EXPIRATION | | | | | |
| 1223 | AUTOIV1 | C02NV | | 07/14/05 10:36:37 | - | DSI208I TIME EXPIRATION | | | | | |
| 1224 | AUTTCP4 | C02NV | | 07/14/05 10:36:57 | - | DSI208I TIME EXPIRATION | | | | | |
| • | | | | | | <u> </u> | | | | | |

Figure 27. Display Log

You can specify Browse facility commands in the text field. For more information about the fields for this task, see the Task Assistant. For more information about Browse facility commands, use the Open NetView Help task to view the help for the BROWSE command.

Chapter 6. Opening the Command Console

Click **Open Command Console** in the portfolio to submit a command. The command can be either a NetView command or a NetView CLIST (command list).

In the text field, type the command or CLIST you want to run and click **Go**. The command response is displayed in the command response area, similar to the view in Figure 28.

Notes:

- 1. If the response is in HTML or XML format, it is displayed in a separate browser window.
- 2. If you issue commands that run for a long time before completion, such as PING or TRACERTE with a high count number, issue them only from the NCCF command line. If you issue this type of command elsewhere, a large amount of storage is required, and the output is not displayed until the command has completed.

| Open Command Console | i ? 🗙 |
|--|------------|
| Command Console | |
| | |
| Previous Commands * | ■ NETVASIS |
| dispfk | |
| DISPLAY OF PF/PA KEY SETTINGS FOR NCCF | |
| KEYTYPECOMMAND SET-APPL | |
| PA1 IMMED, IGNORE RESET NETVIEW | |
| PA2 IMMED, IGNORE AUTOWRAP TOGGLE NETVIEW | |
| PA3 IMMED, IGNORE RETRIEVE AND EXECUTE NETVIEW | |
| PF1 IMMED, APPEND HELP NETVIEW | |
| PF2 IMMED, APPEND GO NCCF | |
| PF3 IMMED, IGNORE RETURN NETVIEW | |
| PF4 IMMED, APPEND DISPFK NETVIEW | |
| PF5 IMMED, IGNORE BROWSE NETLOGA NETVIEW | |
| PF6 IMMED, IGNORE ROLL NETVIEW | |
| PF7 IMMED, APPEND TASKUTIL NCCF | |
| PF8 IMMED, IGNORE PIPE NETVIEW LIST STATUS= NCCF | |
| OPELCOT LCOME ON TY | |
| Clear Responses | |
| | |
| Close Task | |
| | |
| | |
| | |
| | |
| | |
| | |
| • | F F |

Figure 28. Command Console with Command Response

The NetView for z/OS program converts lowercase characters to uppercase prior to processing unless the **NETVASIS** check box is selected.

You can run a command that you have previously run. Click the **Previous Commands** button to see a list of commands, and then click a command to place the command name in the text field. If necessary, you can alter the command displayed in the text field. Click **Go** to run the command.

Note: You can set preferences for the command console, such as whether the **NETVASIS** check box is displayed, the length of the **Previous Commands** list, and the number of lines displayed in the command console response area before scrolling is enabled; for more information, see Chapter 2, "Setting User Preferences," on page 13.

Chapter 7. Opening NetView Help

Click **Open NetView Help** in the portfolio to access the NetView online help for messages and commands.

In the text field, type the NetView for z/OS command or message for which you want to see the help and click **Go**. The formatted results are displayed at the bottom of the view, similar to the view shown in Figure 29.

| Open NetView Help | i ? 🗙 |
|---|----------|
| NetViewfor z/08 Help | |
| | |
| Previous Help Go | |
| DISPFK (NCCF; CRME1048) | |
| | |
| Syntax | |
| DISPFK | |
| current_application DISPLAY | |
| >>-DISPFK+ | |
| +- ALT+ | |
| +- application+ | |
| | |
| Purpose of Command | |
| The DISPFK command list enables you to display or save the PF key | |
| settings for various NetView components. | |
| | |
| Operand Descriptions | |
| ALL | |
| Lists or saves PF or PA key settings for all applications. | |
| ALT | _ |

Figure 29. NetView for z/OS Help with Results

In general, you can specify any of the following items in the text field, where *command* is a command, *command_list* is a command list, *message_ID* is a message ID number, and *component* is a component name such as NCCF or NLDM:

- commands
- command
- command_list
- message_ID
- component
- component commands
- component command

The help for commands might contain links between the syntax keywords and the keyword descriptions. When the message help lists commands in the **Related Commands** section, each command name links to the NetView online help for the command. The help displayed in this view is the same help that you can view from a NetView 3270 session.

You can display help that you have previously displayed. Click the **Previous Help** button to see a list of commands or message IDs for which you have previously displayed help, and then click a command or message ID to place it in the text field. Click **Go** to display the help.

Chapter 8. Launching Procedures

Click **Launch Procedures** in the portfolio to open a uniform resource identifier (URI), which can be one of the following types:

- A Web address (using http or https) that opens a Web site, for example, the run book for your company
- A mail address (using mailto) that opens up the default e-mail program to send an e-mail
- An FTP address (using ftp) that opens an FTP site

Note: This URI is defined using webmenu statements; for more information, see the *IBM Tivoli NetView for z/OS Administration Reference*.

Chapter 9. Viewing DVIPA Status

Click **View DVIPA Status** in the portfolio to display the status of dynamic virtual IP addresses (DVIPA).

Note: DVIPA management must be enabled using the TOWER statement in CNMSTYLE. For more information about enabling DVIPA support, see the *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* manual.

First, use the DVIPA Status Host Filters view, shown in Figure 30, to set host filters that control the DVIPA records that are displayed.

| View DVIPA Status | ? × |
|--------------------------------|-----|
| DVIPA Status Host Filters | _ |
| +TCP Name ★ | |
| ≠z/OS Image Name * | |
| *D√IPA * | |
| Origin | |
| Logical Filter | |
| © AND | |
| COR | |
| OK Restore Defaults Close Task | |

Figure 30. DVIPA Status Host Filters

After you specify the filters, click **OK** to display the DVIPA Status view. If you use the default filter settings, a view that is similar to the view shown in Figure 31 on page 36 is displayed. The host filters you specified are referenced at the top of the work area in **Host Filter Settings**.

| H Wew DVIPA Status | | | | | | | | | i ? 🗙 |
|--|-------------|--------------------|---------|--------|---------------|----------|----------|------------|---------------------|
| DVIPA Status Host Filters 🕨 DVIPA Status | | | | | | | | | |
| | | | | | | | | | |
| TCP Name TVOS Image Name DV/PA Origin Lagical Filter | | | | | | | | | |
| * | * * | <u>yo Namo j</u> t | • * | Jingii | AND | 51 | | | |
| | | | | | | | | | |
| | Open | Incident | | | | | | | |
| <u>+++</u> | f 🖌 🖉 | 1 🔳 🖀 | | | Select Action | 🔻 | Go | | |
| Select ^ | DVIPA ^ | z/OS Imag | je Name | ~ T | CP Name \land | Origin ^ | Status ^ | Mobility ^ | Distributor Status |
| 0 | 201.2.20.11 | TVT2003 | | Т | CPIP3 | backup | Dbackup | none | target |
| 0 | 201.2.20.11 | TVT2017 | | Т | CPIP17 | backup | | whenIdle | target |
| 0 | 201.2.20.11 | TVT2004 | | Т | CPIP4 | define | active | whenIdle | distributorAndTarge |
| 0 | 201.2.20.12 | TVT2003 | | Т | CPIP3 | backup | Dbackup | none | target |
| 0 | 201.2.20.12 | TVT2017 | | Т | CPIP17 | backup | Dbackup | whenIdle | none |
| 0 | 201.2.20.12 | TVT2004 | | Т | CPIP4 | define | active | whenIdle | distributor |
| 0 | 201.2.20.13 | TVT2004 | | Т | CPIP4 | backup | Dbackup | whenIdle | none |
| 0 | 201.2.20.13 | TVT2017 | | Т | CPIP17 | backup | Dbackup | whenIdle | none |
| 0 | 201.2.20.13 | TVT2003 | | Т | CPIP3 | define | active | whenIdle | none |
| 0 | 201.2.20.21 | TVT2003 | | Т | CPIP3 | backup | Dbackup | none | none |
| 0 | 201.2.20.21 | TVT2004 | | Т | CPIP4 | backup | Dbackup | whenIdle | none |
| 0 | 201.2.20.21 | TVT2017 | | Т | CPIP17 | define | active | whenIdle | none 💌 |
| • | | | | | | | | | • |

Figure 31. DVIPA Status

DVIPA status is collected periodically using a NetView timer. The interval for collecting DVIPA status is set at the host using the CNMSTYLE.DVIPAINTVL variable. To see when DVIPA status was last collected or is to be collected again, or to see the browser refresh rate or when the data was last refreshed, move the cursor over the **Refresh** button. If the last DVIPA status collection is more recent than the last data update, you can refresh the data by clicking the **Refresh** button.

Note: DVIPA status requests are handled by a single autotask; if several users refresh the DVIPA status data at the same time, performance might be affected. Refreshing the DVIPA status data can take several minutes, depending on the size of your sysplex and the amount of data collected. If the browser refresh rate is set so that the data is refreshed several times between DVIPA status collections, you might want to suspend automatic refreshing of the data, if you are authorized to do so. Also, if the DVIPA status is to be collected soon, you might want to wait until after it is collected to refresh your data.

The maximum number of DVIPAs that can be sent for display in the Web application is set at the host using the CNMSTYLE.DVIPAMAX variable. The following table footer fields provide information about the DVIPA records:

- **Matched Records** indicates the total number of DVIPA records, regardless of the host filters.
- Total indicates the number of DVIPA records that match your host filters, up to the value of the CNMSTYLE.DVIPAMAX variable. If the number of DVIPA records that match your host filters is greater than the number that can be sent to the Web application (the CNMSTYLE.DVIPAMAX value), the DWO979I message is displayed.
- **Filtered** indicates the number of returned DVIPA records that match the active filters in the table.

When you select a DVIPA, you can open an incident by clicking the **Open Incident** button; for more information, see Chapter 18, "Opening Incident Reports," on page 65.

Chapter 10. Viewing DVIPA Distributors

Click **View DVIPA Distributors** in the portfolio to access information about specific dynamic virtual IP addressing (DVIPA) distributors, targets, and connections.

Note: DVIPA management must be enabled using the TOWER statement in CNMSTYLE. For more information about enabling DVIPA support, see the *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* manual.

The DVIPA Sysplex Distributors view, shown in Figure 32, is displayed.

| Ð | | i ? 🗙 | | | | | | | |
|---------------|--|------------------|-------------------|----------------|-------------------------|------------------|--|--|--|
| DVIPA Sysplex | DVIPA Sysplex Distributors | | | | | | | | |
| (T) | | | | | | | | | |
| | ₩ UI View DVIPA Distributor Targets | | | | | | | | |
| <u>+++</u> | 🚓 🗞 🖉 🗐 🚍 🚯 Select Action 💽 Go | | | | | | | | |
| Select ^ | DVIPA ^ | DVIPA Port \land | z/OS Image Name 🗠 | TCP Name \land | Number of Targets \land | Number of Listen | | | |
| 0 | 201.2.20.11 | 20 | TVT2004 | TCPIP4 | 3 | | | | |
| 0 | 201.2.20.11 | 21 | TVT2004 | TCPIP4 | 3 | | | | |
| ۲ | 201.2.20.11 | 23 | TVT2004 | TCPIP4 | 3 | | | | |
| 0 | 201.2.20.11 | 623 | TVT2004 | TCPIP4 | 3 | | | | |
| 0 | 201.2.20.12 | 20 | TVT2004 | TCPIP4 | 1 | | | | |
| 0 | 201.2.20.12 | 21 | TVT2004 | TCPIP4 | 1 | | | | |
| 0 | 201.2.20.12 | 23 | TVT2004 | TCPIP4 | 1 | | | | |
| 0 | 201.2.20.12 | 623 | TVT2004 | TCPIP4 | 1 | | | | |
| | Total: 8 Filtered: 8 Selected: 1 Last Update: 08/04/05 | | | | | | | | |
| Close Ta | sk | | | | | | | | |

Figure 32. DVIPA Sysplex Distributors

From the DVIPA Sysplex Distributors view, you can display DVIPA information by selecting a sysplex distributor, clicking **Display DVIPA** in the table action list, and then clicking **Go**. The display command is issued and the Command Console view displays the results.

From the DVIPA Sysplex Distributors view, you can also display distributor target information by selecting a sysplex distributor and clicking **View DVIPA Distributor Targets**. Distributor target information is displayed in the DVIPA Distributor Targets view, shown in Figure 33 on page 40. The selected sysplex distributor is referenced at the top of the work area.

| Ð | → Mew DVIPA Distributors 1 ? | | | | | | | | |
|-------------------------------------|---|---------------|----------------|--------|---------------|------------|------------|-----|------|
| DVIPA Sysplex | DVIPA Sysplex Distributors DVIPA Distributor Targets | | | | | | | | |
| DVIPA Sysplex Distributor Reference | | | | | | | | | |
| DVIPA | DVIPA Port z/OS Image Name | TCP Name | Number of Ta | rgets | Number of Lis | stening Se | ervers | | |
| 201.2.20.11 | 23 TVT2004 | TCPIP4 | | 3 | | | З | | |
| 2 11 3 ++++ ++++ | Wew DVIPA Connections # # # E Image: Connection c | | | | | | | | |
| Select ^ | Destination z/OS Image Name _^ | Destination 1 | FCP Name \land | XCF IF | P Address 🗠 | Number | of Server | s ^ | N |
| ۲ | TVT2004 | TCPIP4 | | 193.9. | 100.1 | | | 1 | |
| 0 | TVT2003 | TCPIP3 | | 193.9. | 100.2 | | | 1 | |
| 0 | TVT2017 | UNKNOWN | | 193.9. | 100.3 | | | 1 | |
| | | | | | Т | otal: 3 F | iltered: 3 | Se | lect |
| Back CI | ose Task | | | | | | | | |

Figure 33. DVIPA Distributor Targets

From the DVIPA Distributor Targets view, you can display connection information by selecting a distributor target and clicking **View DVIPA Connections**. The DVIPA Connections Host Filters view, shown in Figure 34, is displayed. The selected distributor target is referenced at the top of the work area. On this view, specify the filters you want to use and click **OK**.

| → View DVIPA Distributors | | | | | | | | | | |
|--|---|-----------------------------|----------------------|----------------|--|--|--|--|--|--|
| DVIPA Sysplex Di | DVIPA Sysplex Distributors 🌢 DVIPA Distributor Targets 🌢 DVIPA Connections Host Filters | | | | | | | | | |
| DVIPA Distri | ibutor Target | t Reference | | | | | | | | |
| DVIPA | DVIPA Port | Destination z/OS Image Name | Destination TCP Name | XCF IP Address | | | | | | |
| 201.2.20.11 | 23 | TVT2004 | TCPIP4 | 193.9.100.1 | | | | | | |
| *APPL Name * *LU Name * *Remote IP # |) Address | | | | | | | | | |
| *Remote Por * Logical Filter | t | | | | | | | | | |
| © AND © OR | | | | | | | | | | |
| OK Res | store Defaults | Back Close Task | | | | | | | | |

Figure 34. DVIPA Connections Host Filters

If you take the defaults, a DVIPA Connections view similar to the view shown in Figure 35 on page 41 is displayed. The selected distributor target is referenced at the top of the work area.

| Ð | | View DVIP. | A Distributors | | | | i | ? × | | | |
|------------------------------------|------------------------------------|--------------------------------|------------------|-----------------|--------|--------------|--------|--------|--|--|--|
| DVIPA Sysplex D | Distributors 🕨 DVIPA Distrit | utor Targets 🕨 DVIPA Connectio | ons Host Filters | DVIPA Connecti | ons | | | | | | |
| DVIPA Distributor Target Reference | | | | | | | | | | | |
| DVIPA | DVIPA Port Desti | nation z/OS Image Name | 🕴 🛛 Destinatio | n TCP Name 🛛 | XCF II | P Address | | | | | |
| 201.2.20.11 | 23 TVT20 | 04 | TCPIP4 | | 193.9. | 100.1 | | | | | |
| 8 II # # | 😵 🛙 👾 😰 😰 👕 💣 🚽 Select Action 🔽 Go | | | | | | | | | | |
| Select ^ | Remote IP Address | ∧ Remote Port ∧ By | /tes Sent \land | Bytes Receiv | ed ^ | Server Job N | lame 🗠 | Connec | | | |
| 0 : | 201.2.20.11 | 1036 | 546 | 1 | 15,947 | TCPIP4 | | 2157 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | Total: 1 Filter | red: 1 | Selected: 0 | | | | | |
| Back Clo | ose Task | | | | | | | | | | |

Figure 35. DVIPA Connections

From the DVIPA Connections view, a number of actions are available from the table action list. You can display information about a connection, such as the remote IP address details, the LU, or the application; you can drop the connection; or you can trace the route to or ping the remote IP address.

Chapter 11. Managing TCP/IP Connections

Click **Manage TCP/IP Connections** in the portfolio to work with TCP/IP connection data such as start and stop times, traffic statistics, or socket information. TCP/IP connection data is available for TCP/IP stacks currently being managed by the NetView for z/OS program.

Note: For more information about enabling real-time TCP/IP connection management, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components.*

The Select Stack view shown in Figure 36 is displayed in the work area. The table contains the TCP/IP stacks known to the NetView for z/OS program. From this view, you can select a TCP/IP stack and either query or purge connection data for that stack.

| | • | | | | Mar | hage TCP/IP Connection | าร | | i ? 🗙 |
|---|---|-----|-------------|------------|---------------|------------------------|---------------------|--------------|------------------------|
| S | elect Stack | < | | | | | | | |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Query Conne | ction Data | Pu | rge Connection Da | ta | | |
| | <u>+++</u> | * | ? 🥒 🔎 | 1 1 | * | Select Action | 🔽 Go | | |
| | Select | ^ | TCP Name 🗠 | Type 🛆 | Domain 🗠 | Policy Name 🗠 | Host Name | ^ | Primary IP Address |
| | 0 | | TCPIP | TCPIP | A01NV | TVT2002 | TVT2002.tivlab.rale | eigh.ibm.com | 9.42.45.131 |
| | 0 | | TCPIP3 | TCPIP | C01NV | TVT2003 | TVT2003.tivlab.rale | eigh.ibm.com | 9.42.45.132 |
| | ۲ | | TCPIP4 | TCPIP | C02NV | TVT2004 | TVT2004.tivlab.rale | eigh.ibm.com | 9.42.45.133 |
| | 0 | | TCPIP17 | TCPIP | D16 | TVT2017 | TVT2017.tivlab.rale | eigh.ibm.com | 9.42.45.146 |
| | | | | Total: | 4 Filtered: 4 | 4 Selected: 1 | | Last Update | : 08/24/05 17:13:04 ES |
| | Close | Tas | sk | | | | | | |

Figure 36. Select Stack View for Manage TCP/IP Connections

Querying Connection Data

You can query live (active) and historical (inactive) connections for a specific stack. If IBM Tivoli OMEGAMON XE for Mainframe Networks is installed and configured, you can also view performance data for that product from the Web application. The example described in this section illustrates how to navigate through the task to view data for a live TCP/IP connection through a specific stack and correlated Tivoli OMEGAMON XE for Mainframe Networks performance data for that connection.

| > | Note: With APAR OA22729, the data for active connections is collected using the |
|---|---|
| > | TCPCONN QUERYACT command; for more information, see the command |
| > | help. |
| | |

As shown in Figure 36, select a stack in the table and click **Query Connection Data**. The Query TCP/IP Connection Data view shown in Figure 37 on page 44 is displayed in the work area.

| → Manage TCP/ | 'IP Connections | i ? 🗙 |
|--|---|-------|
| Select Stack Query TCP/IP Connection Data | | |
| Stack Reference | | |
| TCP Name Type Domain Policy Name Host Name | Primary IP Address | |
| TCPIP4 TCPIP C02N√ T√T2004 T√T2004.tiv | lab.raleigh.ibm.com 9.42.45.133 | |
| *Local IP Address * TN3270 APPL Name *Remote IP Address * *Connection Start Time Range (*.*) *Maximum Connections | *Local Port * TN3270 LU Name Remote Port * Connection End Time Range (*,*) *Force Connections | |
| Connection Type Cuive Historical Both OK Restore Defaults Back Close Task Select Local IP Address Select Local Port | | |

Figure 37. Query TCP/IP Connection Data

The default values are shown. To select a local IP address from a table containing all active local IP addresses for the referenced stack, click **Select Local IP Address**. To select one or more local ports from a table containing all listening local ports bound to the specified local IP address for the referenced stack, click **Select Local Port**.

After you specify the filtering criteria to identify the connections for which you want to see information and click **OK**, the View TCP/IP Connection Data view shown in Figure 38 on page 45 is displayed in the work area. This view displays the retrieved connection data in a table, with each row of the table representing a connection matching the filter criteria. Not all of the data fields are available for all connections.

| Stack Refe TCP Name | rence | Policy Name | Host Name | Primary IP A | Hroce | |
|------------------------|------------------|--------------|-----------------------------|-------------------|------------------|--------|
| | TCPIP C02NV | TVT2004 | TVT2004.tivlab.raleigh.ibm. | com 9.42.45.133 | Juless | |
| - CD4 - D- D | | | , | | 11 | |
| 8 II | Open Incider | nt Query I | Performance Data | Query IP Packet T | race Data | Form |
| 444 4 | ? 🛛 🖻 📜 | 1 👚 🖻 | Select Action | ▼ Go | | |
| Select ^ | Local IP Address | ^ Local Port | ∧] Remote IP Address - ^ | Remote Port \land | Connection State | ^ Idle |
| 0 | 9.42.45.133 | 19: | 20 9.42.9.183 | 3542 | established | 00 00 |
| ۲ | 9.42.45.133 | : | 23 9.27.132.216 | 1681 | established | 00 00 |
| 0 | 9.42.45.133 | 10 | 41 9.42.8.185 | 17510 | established | 00 00 |
| 0 | 9.42.45.133 | 19 | 18 9.42.45.133 | 1034 | established | 00 00 |
| 0 | 9.42.45.133 | 10: | 34 9.42.45.133 | 1918 | established | 00 00 |
| 0 | 9.42.45.133 | 19: | 20 9.42.45.133 | 1033 | established | 00 00 |
| 0 | 9.42.45.133 | 10: | 33 9.42.45.133 | 1920 | established | 00 00 |
| 0 | 127.0.0.1 | 10: | 24 127.0.0.1 | 1025 | established | 00 00 |
| 0 | 127.0.0.1 | 10: | 25 127.0.0.1 | 1024 | established | 00 00 |
| Matched R | ecords: 9 | | | | | |
| Deal/ | lass Task | | | | | |

Figure 38. View TCP/IP Connection Data

From this view, several actions are available:

- You can open an incident report; for more information, see Chapter 18, "Opening Incident Reports," on page 65.
- You can query performance data.
- You can query or format IP packet trace data; for more information, see Chapter 12, "Managing IP Packet Trace Data," on page 49.
- From the table action list, depending on the type and status of the connection you selected, you can ping the local or remote IP address; trace the route to the local or remote IP address; drop the connection; display the remote IP address or connection details; display the APPL or the LU; or quiesce or resume the local port.

Next, select a connection in the table. If Tivoli OMEGAMON XE for Mainframe Networks is installed and is defined to the NetView for z/OS program, the **Query Performance Data** button is enabled.

Note: If you select a connection and the **Query Performance Data** button remains disabled, ensure that the location of the Tivoli Enterprise Management Server SOAP server endpoint is specified in CNMSTYLE member CNMSTWBM and that at least one Tivoli OMEGAMON XE for Mainframe Networks target is specified in CNMSTYLE member CNMSTWBM. For more information about enabling the Tivoli Enterprise Management Server SOAP server, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

Click **Query Performance Data**. If a Tivoli OMEGAMON XE for Mainframe Networks target that matches the TCP name and host name for the selected stack is not found in CNMSTYLE member CNMSTWBM, an error message is issued. If a match is found, the Query Performance Data view shown in Figure 39 on page 46 is displayed in the work area.

| Ð | | | | Manage | TCP/IP Connection | s | | | | i ? 🗙 |
|--------------------------------|----------------|---------------|----------------------------|----------------|----------------------------|------------|--------|-----------------------|----|-------|
| Select Stack 🕨 Q | uery TCP/ | IP Connection | n Data 🕨 <u>View TCP</u> / | IP Connec | s <u>tion Data</u> 👂 Query | Performano | e Data | | | |
| | | | | | | | | | | |
| Stack Refere | ence | | | | | | | | | |
| TCP Name | Туре | Domain | Policy Name | Host N | ame | | Prim | ary IP Addres | 38 | |
| TCPIP4 | TCPIP | C02NV | TVT2004 | TVT200 |)4.tivlab.raleigh.i | ibm.com | 9.42. | 45.133 | | |
| Connection | Refere | nce | | | | | | | | |
| Local IP Add | iress | Local Port | Remote IP A | ddress | Remote Port | Target A | Appl | LU Name | | |
| 9.42.45.133 | | 23 | 9.27.132.216 | | 1681 | TSOC02 | 201 | CO2TCPO2 | | |
| ∗Tivoli Enterp sysadmin | rise Ma | nagement : | Server User ID | *Tivoli E * | Enterprise Mana | gement S | Server | ^r Password | | |
| Performance © Connectio | Data n Data | | | | | | | | | |
| Connection Tr | ession | Data | | | | | | | | |
| Connection 1 | ype | | | | | | | | | |
| C Live | | | | | | | | | | |
| Historical | | | | | | | | | | |
| OK Res | store De | faults | Back Close | Task | | | | | | |

Figure 39. Query Performance Data

This view contains the following items:

- A reference row indicating which stack was selected
- A reference row indicating which TCP/IP connection was selected
- Entry fields for Tivoli Enterprise Management Server user ID and password
- Entry fields for filtering performance data and connection type

You can request connection data or TN3270 session data and live or historical connections. Specify the Tivoli Enterprise Management Server user ID and password, specify **Connection Data** and **Live**, and click **OK** to query the performance data for the live Tivoli OMEGAMON XE for Mainframe Networks connections that match the referenced stack and the referenced TCP/IP connection. If the query for performance data is successful, the View Performance Data view shown in Figure 40 on page 47 is displayed in the work area.

| Ð | | | | Manage T | CP/IP C | onnections | | | i ? 🗙 | | |
|--|------------|----------------------|----------------------------|---------------|-----------|--------------------|--------------------------|---------------------|-----------|--|--|
| Select Stack 🕨 🤅 | Query TCP/ | <u>'IP Connectio</u> | n Data 🕨 <u>View TCP</u> . | /IP Connectio | on Data | Query Performance | <u>e Data</u> 🕨 View Per | formance Data | | | |
| Charle Data | | | | | | | | | | | |
| TCP Name | Tyne | Domain | Policy Name | Host Na | no | | Primary IP Ac | Idrace | | | |
| | TOPIP | CO2NV | | | tivlah. | ralaigh ihm com | 9 //2 //5 133 | 101635 | | | |
| | | 002147 | 1112004 | 1112004 | . cratab. | | 0.42.40.100 | | | | |
| Connection | Referei | nce | 1 | | _ | | | | | | |
| Local IP Ad | dress | Local Port | Remote IP A | ddress I | Remot | te Port Target / | Appl _ LU Nam | e | | | |
| 9.42.45.133 23 9.27.132.216 1681 TSOC0201 C02TCP02 | | | | | | | | | | | |
| 8 II | Op | en Inciden | t View Met | rics | | | | | | | |
| 444 4 | 2 | P 1 | | Selec | t Acti | on 🔽 G | 0 | | | | |
| Select ^ | Connect | ion State | ^ Connection | n Start Tim | ne in i | Target Appl | LU Name 🗠 | Application Name | ^ Collect | | |
| 0 | estab | lished | 08/24/05 17 | 7:02:16 | | TSOC0201 | C02TCP02 | TCPIP4 | 08/24/0 | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | Total: 1 Filt | ered: 1 Selected: C | J | | |
| Back Clo | ose Task | | | | | | | | | | |

Figure 40. View Performance Data

This view displays the connections in Tivoli OMEGAMON XE for Mainframe Networks that match the referenced stack and connection in a table.

Note: If the performance data is not displayed, ensure that the NetView for z/OS program is configured correctly; for more information, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components.*

From the View Performance Data view, you can select a connection and take one of the following actions:

- You can open an incident report; for more information, see Chapter 18, "Opening Incident Reports," on page 65.
- You can view performance metrics.

If you select a connection and click **View Metrics**, the View Metrics view, which is shown in Figure 41 on page 48, is displayed in the work area. The metrics displayed include byte transmit and receive rates, segment transmit and receive rates, and many others.

| → | | | | | Manage | тср. | /IP Connection | s | | | | | | i ? | |
|------------------|--|----------------|---------|-----------|-------------|-------|----------------|------------|--------|---------|-----------|----------|--------|---------|------------|
| Select Stack 🕨 🔍 | uery TCP. | /IP Connection | n Data | View TC | P/IP Connec | tion | Data 🕨 Query | Performanc | e Data | View | Performar | nce Data | View N | letrics | <u> </u> |
| Stack Poforo | nco | | | | | | | | | | | | | | |
| TCP Name | Type | Domain | Polic | v Name | Host N | ame | 1 | | Prin | harv IP | Addres: | s | | | |
| TCPIP4 | TCPIP | C02NV | TVT2 | 004 | TVT200 | 4.tiv | /lab.raleigh.i | ibm.com | 9.42 | .45.133 | | | | | |
| Connection I | Roforo | nco | | | | | | | | | | | | | |
| Local IP Add | Iress | Local Port | Ren | note IP / | Address | Re | mote Port | Target A | laq/ | LU Na | me | 1 | | | |
| 9.42.45.133 | | 2: | 3 9.27 | .132.216 | 6 | | 1681 | TSOC02 | 201 | CO2TC | :P02 | | | | |
| OMEGAMON | OMEGAMON XE for Mainframe Networks Conne | | | | | | Reference | | | | | | | | |
| Connection S | State | Connection | n Starl | t Time | Target A | ppl | LU Name | Applica | ation | Name | Collect | tion Tir | ne A | \SID | Co |
| establishe | d | 08/24/05 11 | 7:02:1 | 6 | TSOC020 |)1 | CO2TCPO2 | TCPIP4 | Ļ | | 08/24/0 | 05 17:3 | 4:13 7 | 5 | |
| Key Perform | anco | Motrice | | | | | | | | | | | | | |
| Attribute | ancei | vietites | | Value | | | | | | | | | 1 | | |
| Response Tir | me Var | iance | | 0.24 | | | | | | | | | 1 | | |
| Segments Re | etransn | nitted (%) | | 0 | | | | | | | | | | | |
| Retransmissi | ion Rat | e (per minu | ite) | 0 | | | | | | | | | | | |
| Transmit Byt | e Rate | (per minute | ∋) | 0 | | | | | | | | | | | |
| Receive Byte | Rate (| (per minute) |) | 0 | | | | | | | | | | | |
| Total Byte Ra | ate (per | r minute) | | 0 | | | | | | | | | | | |
| Transmit Seg | jment F | Rate (per m | inute) | 0 | | | | | | | | | | | |
| Receive Segr | ment R | ate (per mi | nute) | 0 | | | | | | | | | | | |
| Total Segme | nt Rate | (per minut | e) | 0 | | | | | | | | _ | | | - - |
| 4 | | | | | | | | | | | | | | | |

Figure 41. View Metrics

Purging Connection Data

You can also purge connection data for a specific stack. From the Select Stack view (Figure 36 on page 43), if you select a stack and click **Purge Connection Data**, the Purge TCP/IP Connection Data view is displayed in the work area. On this view, you can specify filtering criteria to control which connection records are purged.

Notes:

- 1. With APAR OA22729, the data for active connections is collected using a different data source than is used for purging.
- 2. If TCP/IP connection information for the selected stack is not available for purging, an error message is displayed. Connection data cannot be purged if you have not enabled real-time collection of connection data through the socket interface; for more information, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components.*

After you specify the filtering criteria for the purge, click **OK**. This action purges connection data for the stack from storage (for live connections) or DASD (for inactive connections). TCPCONN statements in CNMSTYLE or its included members determine which connections have data kept in storage (while active) or on DASD (while inactive). After the connection data is purged, a view is displayed that lists the number of records purged.

Note: For more information about TCPCONN statements, see the *IBM Tivoli NetView for z/OS Administration Reference*.

Chapter 12. Managing IP Packet Trace Data

Click **Manage IP Packet Trace Data** in the portfolio to work with IP packet trace data. Packet trace data is available for TCP/IP stacks currently being managed by the NetView for z/OS program.

Note: For more information about enabling real-time TCP/IP connection management, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*.

The Select Stack view shown in Figure 42 is displayed in the work area. The table contains the TCP/IP stacks known to the NetView for z/OS program. From this view, you can select a TCP/IP stack and query, format, or purge IP packet trace data for that stack.

| | Ð | | | Маг | age IP Packet Trace Da | ta | | i ? 🗙 |
|---|--------------|----------------|--------------|--------------|------------------------|---------------------------|-------|------------------------|
| L | Select Stack | | | | | | | |
| L | | | | | | | | |
| L | 2 | Query IP Pa | cket Trace I | Data | Format IP Paci | ket Trace Data | Purge | IP Packet Trace Data |
| | +++ + | P 🖌 P | 1 | P | Select Action | Go | | |
| L | Select ^ | TCP Name \land | Type 🗠 | Domain 🗠 | Policy Name 🗠 | Host Name | ^ | Primary IP Address |
| L | 0 | TCPIP | TCPIP | A01NV | TVT2002 | TVT2002.tivlab.raleigh.ib | m.com | 9.42.45.131 |
| L | 0 | TCPIP3 | TCPIP | C01NV | TVT2003 | TVT2003.tivlab.raleigh.ib | m.com | 9.42.45.132 |
| L | ۲ | TCPIP4 | TCPIP | C02NV | TVT2004 | TVT2004.tivlab.raleigh.ib | m.com | 9.42.45.133 |
| L | 0 | TCPIP17 | TCPIP | D16 | TVT2017 | TVT2017.tivlab.raleigh.ib | m.com | 9.42.45.146 |
| L | | | | Total: 4 Fil | tered: 4 Selected | ±: 1 | Last | Update: 08/12/05 16:01 |
| | Close Ta | isk | | | | | | |

Figure 42. Select Stack for Manage IP Packet Trace Data

Querying and Formatting IP Packet Trace Data

The example in this section illustrates how to navigate through the task to query and format IP packet trace data.

As shown in Figure 42, select a stack in the table and click **Query IP Packet Trace Data**. The Query IP Packet Trace Data view shown in Figure 43 on page 50 is displayed in the work area.

| Ð | | | | Manage IP Pa | oket Trace Data | | i ? 🗙 |
|---|-----------------------------------|--------------------|---------------------|------------------------|---|--------------------|-------|
| Select Stack 🕨 Q | uery IP Pa | acket Trace D | ata | | | | |
| Stack Refere | ence | | | | | | |
| TCP Name | Туре | Domain | Policy Name | Host Name | | Primary IP Address | |
| TCPIP4 | TCPIP | C02NV | TVT2004 | TVT2004.tiv | lab.raleigh.ibm.com | 9.42.45.133 | |
| *Local IP Adu * *Remote IP A * *Maximum P -10 Interface Nam | dress Address 'ackets ne | | | | *Local Port *Remote Port *Maximum Packet 66535 *Time Range | : Length | |
| OK Re: Select L | store De .ocal IP / | efaults Address | Back Close Selec | : Task t Local Port | (*.*) | | |

Figure 43. Query IP Packet Trace Data

The default values are shown. To select a local IP address from a table containing all active local IP addresses for the referenced stack, click **Select Local IP Address**. To select a local port from a table containing all listening local ports bound to the specified local IP address for the referenced stack, click **Select Local Port**.

After you specify the filtering criteria to identify the packets for which you want to see information and click **OK**, the View IP Packet Trace Data view shown in Figure 44 is displayed in the work area. This view displays the retrieved packets in a table, with each row of the table representing a packet matching the filter criteria.

| Ð | | | Manage IP Packet Trace Data | | | i | ? × | | | |
|--------------------------------|----------------|-------------------|-----------------------------|-----------------|----------------|-----------|---------|--|--|--|
| TCP Name | Type Dom | ain Policy Nam | e Host Name | Primary I | P Address | | - | | | |
| TCPIP4 | TCPIP CO2N | IV TVT2004 | TVT2004.tivlab.raleigh.ib | m.com 9.42.45.1 | 33 | | | | | |
| & [| Format IP | Packet Trace Data | | | | | | | | |
| 👯 🤗 🖉 👕 🗃 😰 Select Action 🔽 Go | | | | | | | | | | |
| Select ^ | Time Stamp | Interface Na | me 🔺 Local IP Address 🕤 | ^ Local Port 🗠 | Remote IP Addr | ess ^ | Remo | | | |
| 0 | 08/12/05 16:00 | 5:23 TCPIPLINK | 9.42.45.133 | 8008 | 9.42.9.183 | | | | | |
| 0 | 08/12/05 16:00 | 5:23 TCPIPLINK | 9.42.45.133 | 8008 | 9.42.9.183 | | | | | |
| 0 | 08/12/05 16:00 | 5:23 TCPIPLINK | 9.42.45.133 | 8008 | 9.42.9.183 | | | | | |
| 0 | 08/12/05 16:00 | 5:24 TCPIPLINK | 9.42.45.133 | 8008 | 9.42.9.183 | | | | | |
| ۲ | 08/12/05 16:00 | 6:24 TCPIPLINK | 9.42.45.133 | 8008 | 9.42.9.183 | | | | | |
| 0 | 08/12/05 16:00 | 5:29 TCPIPLINK | 9.42.45.133 | 1918 | 9.42.9.129 | | | | | |
| 0 | 08/12/05 16:00 | 6:29 LOOPBACK | . 127.0.0.1 | 1091 | 127.0.0.1 | | | | | |
| 0 | 08/12/05 16:00 | 5:29 TOPIPLINK | 9.42.45.133 | 1918 | 9.42.9.129 | | | | | |
| 0 | 08/12/05 16:00 | 5:29 TCPIPLINK | 9.42.45.133 | 1116 | 9.42.9.129 | | | | | |
| 0 | 08/12/05 16:00 | 5:30 TCPIPLINK | 9.42.45.133 | 1116 | 9.42.9.129 | | | | | |
| Matched R | ecords: 27588 | | | | | Total: 10 | J Filte | | | |
| Back C | lose Task | | | | | | | | | |

Figure 44. View IP Packet Trace Data

- **Note:** If packet trace data is not available for the selected stack, an error message is displayed. Packet trace data might be unavailable for the following reasons:
 - IP packet tracing is not enabled in Communications Server. For more informations, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components.*
 - Collection of packet trace data in the NetView for z/OS program is not configured. See information about the PKTS command in the *IBM Tivoli NetView for z/OS Command Reference Volume 1.*

From the View IP Packet Trace view, you can select a packet trace record and take one of the following actions:

- You can format the IP packet trace data.
- From the table action list, you can ping the local or remote IP address or trace the route to the local or remote IP address.

For this example, select a packet trace record in the table and click **Format IP Packet Trace Data**. The Format IP Packet Trace Data view shown in Figure 45 is displayed in the work area. Use this view to specify how you want the packet trace data to be formatted.

| I | | Manage IP Packs | et Trace Data | | i | ? × |
|--|----------------------------|----------------------------|------------------------------|------------------------|---|-----|
| Select Stack Query IP Packet Trace [| lata 🕨 <u>View IP Pack</u> | <u>at Trace Data</u> 🕨 For | mat IP Packet Trace Da | ta | | - |
| Stack Reference | | | | | | |
| TCP Name Type Domain | Policy Name | Host Name | | Primary IP Address | | |
| TCPIP4 TCPIP C02NV | TVT2004 | TVT2004.tivlal | b.raleigh.ibm.com | 9.42.45.133 | | |
| *Local IP Address | | | *Local Port | | | |
| *Remote IP Address 9.42.9.183 | | | *Remote Port 3011 | | | |
| *Maximum Packets -10 | | | ∗Maximum Pack 65535 | et Length | | |
| Interface Name | | | *Time Range (BD7395516D8C | 9005,BD7395516D8 | | |
| *Report Type SUMMARY ▼ | | | *Convert Time St LOCAL ▼ | amps | | |
| Maximum Line Width of Gener 250 | ated Report | | Maximum Record 500 | ds Released in Storage | | |
| Specify SESSION Operand | | <u>s</u> | pecify SEGMENT or NO | SEGMNT Operand | | |
| Format TCP and UDP Se Value DETAIL | essions | | *Recombine Seg SEGMENT ▼ | gment Records | | |
| Specify DUMP Operand | | <u>s</u> | pecify FMT Operand | | | • |

Figure 45. Format IP Packet Trace Data

After you specify the formatting options and click **OK**, the Formatted IP Packet Trace Data Records view shown in Figure 46 on page 52 is displayed in the work area.

| Ð | + Manage IP Packet Trace Data 1 ? 🗙 | | | | | | |
|---|--|--------|-------------|--------------------------------|--------------------|--------|--|
| Select Stack 🕨 😡 | Select Stack 🖗 Query IP Packet Trace Data 🖗 View IP Packet Trace Data 🖗 Format IP Packet Trace Data 🖗 Formatted IP Packet Trace Data Records | | | | | | |
| | | | | | | | |
| Stack Refere | Stack Reference | | | | | | |
| TCP Name | Туре | Domain | Policy Name | Host Name | Primary IP Address | | |
| | TCPIP | C02NV | TVT2004 | TVT2004.tivlab.raleigh.ibm.com | 9.42.45.133 | | |
| Command Is | sued | | | | | | |
| NETVASIS I TIME=(BD7) LINESIZE=: | NETVASIS FMTPACKT TCPNAME=TCPIF4 LADDR=9.42.45.133 LPORT=8008 RADDR=9.42.9.183 RPORT=30 TIME=(BD7395516D8C9005,BD7395516D8C9005) MAXRECS=-10 TRUNCATE=65535 COUNT=VES SUMMARY L LINESIZE=250 CLEANUP=500 SEGMENT REASSEM=(65535,SUMMARY) | | | | | | |
| Command R | Command Response | | | | | | |
| z/OS TCP. **** 2005. I - Inbou O - Outbor | z/OS TCP/IP Packet Trace Formatter, (C) IBM 2000-2005, 2005.047 **** 2005/08/12 I - Inbound packet 0 - Outbound packet | | | | | | |
| OT164559 | $\begin{array}{llllllllllllllllllllllllllllllllllll$ | | | | | | |
| No pa | No packets required reassembly | | | | | | |
| SYSTCPDA Trace Statistics 1 ctrace records processed 0 segmented trace records read 0 segmented trace records were lost 1 trace records were lost | | | | | | | |
| 0 records could not be validated 1 records passed filtering 1 packet trace records processed 0 data trace records processed | | | | | | | |
| | | | | | | • • | |

Figure 46. Formatted IP Packet Trace Data Records

This view contains a reference row indicating the selected stack, the FMTPACKT command that was issued, and the command response from the FMTPACKT command.

You can also format IP packet trace data for a specific stack rather than for a specific packet trace record as shown in the previous example. If you select a stack from the Select Stack view (Figure 42 on page 49) and click **Format IP Packet Trace Data**, the Format IP Packet Trace Data view is displayed in the work area. After you specify the formatting options and click **OK**, the Formatted IP Packet Trace Data Records view is displayed in the work area. For examples of these views, see Figure 45 on page 51 and Figure 46.

Purging IP Packet Trace Data

You can purge IP packet trace data for a specific stack. From the Select Stack view (Figure 42 on page 49), if you select a stack and click **Purge IP Packet trace Data**, the Purge IP Packet Trace Data view is displayed in the work area. In this view, you can specify filtering criteria to control which IP packet trace records are purged.

After you specify the filtering criteria for the purge, click **OK**. After the IP packet trace records are purged, the Purged IP Packet Trace Data Records view is displayed in the work area. This view lists the number of IP packet trace records purged.

Chapter 13. Loading and Unloading SNMP MIBs

Click **Load/Unload SNMP MIBs** in the portfolio to load MIBs or MIB groups into the Web SNMP service or to unload MIBs or MIB groups that were previously loaded. You cannot use MIB variables unless they are loaded.

Note: This task requires the SNMP server to be configured and running; for information about starting the SNMP server, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* and the *netview_installation_dir/*doc/znetview_webapp_readme_en.htm file. For information about defining your own MIBs, see the znetview_webapp_readme_en.htm file.

If MIBs or MIB groups were previously loaded, the Unload MIBs view, shown in Figure 47, is displayed. If no MIBs or MIB groups are loaded, the Load MIBs view, shown in Figure 48 on page 54, is displayed.

To unload MIBs or MIB groups, select the MIBs or MIB groups you want to unload and click **Unload a MIB**.

| • | Load/Unioad SNMP MIBs | | i ? [| | | |
|-------------|---------------------------------------|------------------------|-------------|--|--|--|
| Unioad MIBs | | | | | | |
| | | | | | | |
| Lipior | of a MID Available MIDe | | | | | |
| Onio | | | | | | |
| | 🖻 🐺 🥰 🖉 🔳 👕 🇗 – Select Action | ▼ Go | | | | |
| Select ^ | Loaded MIBs | ^ | | | | |
| | /mibs/rfc1213-MIB-II.mib | | _ | | | |
| | /mibs/rfc1903.mib | | | | | |
| | /mibs/rfc1907.mib | | | | | |
| | /mibs/rfc2233.mib | | | | | |
| | /mibs/IANAifType.mib | | | | | |
| | /mibs/fkxsnmp.grp | | | | | |
| | /mibs/ATM-ACCOUNTING-INFORMATION.mib | | | | | |
| | /mibs/ATM-TC.mib | | | | | |
| | /mibs/ATM.mib | | | | | |
| | /mibs/CISCO-CIPTCPIP.mib | | | | | |
| | /mibs/CISCO-SMI.mib | | | | | |
| | /mibs/CISCO-TN3270SERVER.mib | | | | | |
| | /mibs/IANA-ADDRESS-FAMILY-NUMBERS.mib | | | | | |
| | /mibs/IANA-LANGUAGE.mib | | | | | |
| | /mibs/IANATn3270eTC.mib | | - | | | |
| | | Total: 30 Filtered: 30 | Selected: 0 | | | |

Figure 47. Unload MIBs

To load MIBs or MIB groups, click **Available MIBs**. The Load a MIB view, shown in Figure 48 on page 54, is displayed. From this view, select the MIBs or MIB groups you want to load and click **Load a MIB**. If you click **Loaded MIBs**, the Unload MIBs view is displayed, where you can select MIBs or MIB groups to unload.

| Load/Unload SNMP MIBs | i ? 🗙 | | | | | |
|---------------------------------|----------------------------|--|--|--|--|--|
| Unicad MIBs D Load a MIB | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Select ^ Available Mibs | ^ | | | | | |
| ATM-ACCOUNTING-INFORMATION.mib | ^ _ | | | | | |
| ATM-TC.mib | | | | | | |
| ATM.mib | | | | | | |
| | | | | | | |
| CISCO-SMI.mib | | | | | | |
| CISCO-TN3270SERVER.mib | | | | | | |
| fkxsnmp.grp | | | | | | |
| IANA-ADDRESS-FAMILY-NUMBERS.mib | | | | | | |
| IANA-LANGUAGE.mib | | | | | | |
| IANAifType.mib | | | | | | |
| IANATn3270eTC.mib | | | | | | |
| □ ibm3172.mi2 | | | | | | |
| IF-INVERTED-STACK.mib | | | | | | |
| INET-ADDRESS.mib | | | | | | |
| IP-FORWARD.mib | IP-FORWARD.mib | | | | | |
| Total: 3 | 2 Filtered: 32 Selected: 0 | | | | | |
| Total: 3 | 2 Filtered: 32 Selected: 0 | | | | | |

Figure 48. Load a MIB

Chapter 14. Launching the MIB Browser

Click **Launch MIB Browser** in the portfolio to view information for MIB objects and MIB groups for the selected host or hosts.

Note: This task requires the SNMP server to be configured and running; for information about starting the SNMP server, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* and the *netview_installation_dir/*doc/znetview_webapp_readme_en.htm file. For information about defining your own MIBs, see the znetview_webapp_readme_en.htm file.

When you first start the MIB Browser, after a Tivoli NetView for z/OS MIB Browser window opens, a second window similar to the window shown in Figure 49 opens.

Note: Help is available by clicking **?** in the first window (Tivoli NetView for z/OS MIB Browser).

| NetView MIB Brows | ser | | |
|--|------------------------------------|-----------------------------|----------------------|
| Name or IP Address | SNMP Version Version 1 | Rea <u>d</u> Community Name | Write Community Name |
| Citt (0) Gioint-iso-coitt (2) Gioint-iso-coitt (2) Gioint-iso-coitt (2) Gioint-iso-coitt (2) | 2) | | |
| | CNM1404I The folder expansion is c | omplete. | |
| Java Applet Window | | | |



In this window, specify a name or IP address, for example, fred.tivlab.raleigh.ibm.com. Also, specify a read community name, such as public, and, if required, a write community name.

Expand the navigation tree, which is on the left side, to find the MIB object that you want to view, for example, system. Click the MIB object, **system** in this case, to display it on the right side, as shown in Figure 50 on page 56.



Figure 50. MIB Browser Window for the system MIB Object

To walk the MIB tree for the system MIB object, click **Walk**. Information similar to the information shown in Figure 51 is displayed.

| NetView MIB Browser | | |
|---|---|--|
| Name or IP Address SNMP Version Real + tab.raleigh.ibm.com Version 1 put | a <u>d</u> Community Name Iblic 🛛 🗸 | Write Community Name |
| ♥ internet (1) ♥ mgmt (2) ♥ mib-2 (1) ● isystem (1) ● interfaces (2) ● interfaces (2) ● interfaces (2) ● ip (4) ● icmp (5) ● idp (7) ● egp (8) ● cmot (9) ● transmission (10) ● isnin[Ype (30) ● isnin[WIB (31) ● atmMIB (37) | system sysDescr.0 sysObjectID.0 sysUpTime.0 sysContact.0 sysName.0 sysLocation.0 sysServices.0 | Hardware: x86 Family 15 Model 1 Stepping 2 1.3.6.1.4.1.311.1.1.3.1.2 9 days, 8 hours, 8 minutes, 42 seconds Test Lead FRED Test Lab 76 |
| Java Applet Window | | |

Figure 51. MIB Browser Window after Walking the system MIB Object

Depending on the MIB object you are displaying, you can walk the parent, graph, list information, or change the value. For more information, see the help for the MIB Browser by clicking ? in the Tivoli NetView for z/OS MIB Browser window.
Chapter 15. Launching the Real Time Poller

Click **Launch Real Time Poller** in the portfolio to poll and display a real-time graph of MIB-based performance data related to a host. Data for several polling objects, from several different hosts, can be combined on a single graph. You can also specify the polling interval for the polling objects and the maximum number of points that are to be displayed on the graph.

Note: This task requires the SNMP server to be configured and running; for information about starting the SNMP server, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* and the *netview_installation_dir/*doc/znetview_webapp_readme_en.htm file. For information about defining your own MIBs, see the znetview_webapp_readme_en.htm file.

When you first start the Real Time Poller, after a Tivoli NetView for z/OS Real Time Poller window opens, an Add New Host window opens.

Note: Help is available by clicking **?** in the first window (Tivoli NetView for z/OS Real Time Poller).

In the Add New Host window, specify the host that you want to poll. Specify a host name, such as fred.tivlab.raleigh.ibm.com, a community name, and the polling interval, and then click **Add**. A window similar to the window shown in Figure 52 is displayed:



Figure 52. Real Time Poller Window

Next, place the item or items that you want to poll in the **Polling Objects** area. If, for example, you want to poll input and output IP packets for the

fred.tivlab.raleigh.ibm.com system, go to **mib2.model.IP** and expand it by clicking the plus sign (+). Then, click **IP In/Out Pkts**, **IP Input Pkts**, and **IP Output Pkts** to place these items in the **Polling Objects** list.

Then, select the item for polling by clicking it in the **Polling Objects** list. To select several objects to be polled at the same time, press Ctrl while you click each object. For example, to poll the input and output packets, press Ctrl while you click **IP In/Out Pkts**, **IP Input Pkts**, and **IP Output Pkts** to select these items in the **Polling Objects** list, as shown in Figure 53.



Figure 53. Real Time Poller with Polling Objects Selected for Polling

To start polling and graphing, click **Start**. The graph shows a line for each polling object. If several objects are being polled, as in this example, the color of each line corresponds to the color of the object in the **Polling Objects** list, as shown in Figure 54 on page 59.



Figure 54. Real Time Poller Graph

At any time after the polling begins, you can clear the graph and start a new one by clicking **Clear Graph**.

Polling and graphing continues until you stop it. To stop polling and graphing for a polling object, click the polling object, and then click **Stop**. To stop polling and graphing for several polling objects at the same time, press Ctrl while you click each object, and then click **Stop**.

Chapter 16. Issuing SNMP Commands

Click **Issue SNMP Commands** in the portfolio to issue an SNMP command. A list of the SNMP commands that you can issue is displayed in the SNMP Commands view, which is shown in Figure 55.

Note: If the commands are not displayed as active links in this view, ensure that the SNMP server is configured and running; for more information about starting the SNMP server, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components* and the *netview_installation_dir/*doc/ znetview_webapp_readme_en.htm file.

| Ð | Issue \$NMP Commands | i ? 🗙 |
|--------------------|----------------------|-------|
| SNMP Commands | | |
| Get | | |
| <u>Set</u> | | |
| Walk | | |
| GetNext | | |
| BulkWalk | | |
| Trap | | |
| <u>Remote Ping</u> | | |
| Close Task | | |
| | | |

Figure 55. SNMP Commands

When you click the command that you want to issue, a command view is displayed with fields for specifying the command parameters. After you specify the information for the command and click **OK**, the command is issued. Both the command issued and the results of the command are displayed in the SNMP Command Response view.

For example, if you click Get, the Get view is displayed, as shown in Figure 56.

| → | Issue SNMP Commands | i ? 🗙 |
|-----------------------------------|---------------------|-------|
| SNMP Commands 🌢 Get | | |
| *Host Name or IP Address | *Community Name | |
| ∗Timeout Value <mark>30</mark> | *Port Number 161 | |
| *Number of Retries 3 | ★SNMP Version | |
| ∗MIB Variables | | |
| | | |
| OK Restore Defaults Back | Close Task | |



Suppose, for example, that you specify fred.tivlab.raleigh.ibm.com for the host name, public for the community name, and sysContact.0 for the MIB variable.

When you click **OK**, an SNMP Command Response view similar to the view shown in Figure 57 is displayed. This view shows both the SNMP command that was issued and the response for the command.

| | Issue SNMP Commands | i ? 🗙 |
|---|---------------------|-------|
| SNMP Commands) Get) SNMP Command Response | | |
| SNMP Command Issued | | |
| Ģet variables=sysContact.0 hostname=fred.tivlab.raleigh.ibm.com port=161 timeout=30 retries=3 oommunityName=****** version=1 | V | |
| SNMP Command Results sysContact.0:Test Lead | | |
| Back Close Task | | |

Figure 57. SNMP Command Response for the Get Command

Note: Non-English SNMP data cannot be displayed correctly in the Web application because SNMP data is not translated and is not enabled for multiple-byte characters.

Chapter 17. Opening the 3270 Console

Click **Open 3270 Console** in the portfolio to access 3270 panels from the browser without using a terminal emulator. When you select it, the 3270 Console view is displayed.

| Ð | Open 3270 Console | i ? × |
|---|--|-------|
| | Cursor 24 1 Refresh 0 Go Hide Keypad Set Colors | |
| | NetView V5R2 - NM Tivoli NetView D12NV BEVERLY 07/14/05 16:13:51 - D12NV D51038I BEVERLY reconnected. | |
| | | |
| | | |
| | | |
| | | |
| 4 | 222 | J. |

Figure 58. 3270 Console

From the Command Facility, which is displayed in the 3270 Console view, you can access other NetView host 3270 panels. The 3270 Console view provides the same NetView functions that are available when you use a 3270 session. You can also set colors for the 3270 Console view and set whether or not the keypad is hidden or displayed.

Notes:

- 1. The Web application 3270 console supports a screen size of 24 rows by 80 columns in 8-color mode only.
- 2. This task is not affected by user preferences.

A user ID can have only one Web application 3270 console open at a time. If the 3270 console is open in the Web application and you use the same user ID to start the Web application again and open the 3270 console in another Web application, the original 3270 console becomes unavailable. To use the original 3270 console, you must stop and restart the 3270 Console task in the first Web application.

The Web application 3270 console can also become unavailable if the same user ID subsequently logs on to a NetView 3270 management console or a NetView 3270

session with the takeover option set to yes. To use the Web application 3270 console, you must stop and restart the 3270 Console task in the Web application.

For more information about using a 3270 session, see *IBM Tivoli NetView for* z/OS *User's Guide*. For details about the 3270 Console view and about using it, see the Task Assistant.

Chapter 18. Opening Incident Reports

If an incident management application is configured, the **Open Incident** button is enabled in the following tasks:

- Browse Events: See Chapter 3, "Browsing Events," on page 21.
- Browse Sysplex Topology: See Chapter 4, "Browsing Sysplex Topology," on page 25.
- View DVIPA Status: See Chapter 9, "Viewing DVIPA Status," on page 35.
- Manage TCP/IP Connections: See Chapter 11, "Managing TCP/IP Connections," on page 43.

When you click **Open Incident**, the Open Incident view is displayed in the work area. Use this view to access your incident management application to open an incident report.

Notes:

- For information about the configuration requirements for the incident management application, see *IBM Tivoli NetView for z/OS Installation: Configuring Additional Components*. You can configure IBM Tivoli Information Management for z/OS or Peregrine Systems ServiceCenter as the incident management application.
- 2. The **Related Events** table is shown only if you are opening an incident report in the Browse Events task. The table is a snapshot of the events available in the Event Viewer view. In this table, you can select events that are related to the event you are reporting. Any related events that you select are included in the incident description.
- **3.** Depending on the incident management application configured, the Open Incident view has different fields. For descriptions of the fields in the Open Incident view, see the Task Assistant. For detailed information about the fields, see the documentation for your incident management application.

Opening an Incident Report in IBM Tivoli Information Management for z/OS

If you are opening an incident report for an event that you selected and IBM Tivoli Information Management for z/OS is configured as the incident management application for your enterprise, the Open Incident view is similar to the view shown in Figure 59 on page 66.

| + | Browse Events | i ? 🗙 |
|--|---|-----------|
| Event Viewer 🍃 Open Incident | | _ |
| *User ID | Password | |
| *Abstract | *Reported By: | |
| | beverly | |
| *Resource | *Priority | |
| ALTNON12/COMC | Select an option | |
| Incident Description Resource: ALTNON12/CON Type: Creation Time: Thu Aug 04 Severity: Critical Priority: Medium Event ID: CE11DA04A0331 Message: INITIALIZATION | MC ADDRESS (GMT) 3B920F3E4AD58D6B93F5D FAILURE:RING INTERFACE COUPLER | |
| Select A Severity A T | ïme Stamp 🔿 Resource 🥎 | Type ^ Me |
| C 🛆 Warning O | 8/04/05 00:22:15 B3088P0/SP,NAP/TP,DECNET/DEV,RALV4/DEV,A02_1/DEV | SOI |
| 🗆 🗵 🖸 🗆 | 8/04/05 00:22:15 ALTNON12/COMC | |
| • | | Þ |

Figure 59. Open Incident for Information Management for z/OS for an Event

The **User ID** and **Password** fields indicate the user ID and password for accessing the incident management application. In this case, the **Reported By**, **Resource**, and **Incident Description** fields are already specified, and the **Abstract** and **Priority** fields need to be specified. In the **Related Events** table, you can select other events related to the event you are reporting.

After you specify the required fields, click **Submit Incident** to send the information to the incident management application. When the incident report is created, the Open Incident view is refreshed and a message indicates the identifier of your incident report in your incident management application, as shown in Figure 60 on page 67. To work with the incident report after you create it, you must use your incident management application.

| + | Browse Events | i | ?) | ĸ |
|---|--|-------|------|---|
| Event Viewer 🌢 Open Incident | | | | |
| | CINM12381 Incident 00000225 is successfully oreated. Close Message | | | |
| ∗User ID jbrat | Password * | | | |
| *Abstract Initialization problem | *Reported By: beverly | | | |
| *Resource ALTNON12/COMC | ★Priority 1 - High profile | | | |
| Incident Description Resource: ALTNON12/COMC Type: Creation Time: Thu Aug 04 00:2 (9MT) Severity: Critical Priority: Medium Event ID: CE11DA04A03313B920F3E4AD: Message: INITIALIZATION FAILL INTERFACE COUPLER Related Events | 2:15 EDT 2005 58D6B93F6D JRE:RING | | | |
| Select ^ Severity ^ T | ïme Stamp 🔺 Resource ^ T | ype 1 | • Me | |
| | | | 50 | - |

Figure 60. Incident Creation Message for Tivoli Information Management for z/OS

Opening an Incident Report in Peregrine Systems ServiceCenter

If you are opening an incident report for an event that you selected and Peregrine Systems ServiceCenter is configured as the incident management application for your enterprise, the Open Incident view is similar to the view shown in Figure 61 on page 68.

| • | Browse Ever | its | i ? 🗙 |
|---|---|----------|----------|
| Event Viewer 🌢 Open Incident | | | ^ |
| *Abstract | ∗Reported By: Select an option | | |
| *Category Select an option | ∗Subcategory Select an option ▼ | | |
| *Product Type Select an option | *Problem Type Select an option | | |
| *Assignment Select an option | *Resource GEN_ALRT/DOM,AD1NV/ | | |
| *Severity 1 - Critical ▼ | ★Site Category Select an option | | |
| Incident Description | | | |
| Resource: GEN_ALRT/DOM,AL | 11NV/COMC | <u> </u> | |
| Creation Time: Mon Aug 22 07:32:46 EDT 2005 (GMT) | | | |
| Severity: Critical | | | |
| Event ID: CE11DA130287203C30DDEEA4DE892B83E4 | | | |
| Message: EQUIPMENT MALFU | INCTION: COMMUNICATIONS | | |
| | | | • |
| | | | ▶ |

Figure 61. Open Incident for Peregrine Systems ServiceCenter for an Event

The **Category**, **Subcategory**, **Product Type**, and **Problem Type** fields are related, so you must specify values for these required fields in this same order.

After you specify the required fields, click **Submit Incident** to send the information for the incident report to the incident management application. When the incident report is created, the Open Incident view is refreshed and a message indicates the identifier of your incident report in your incident management application, as shown in Figure 62 on page 69. To work with the incident report after you create it, you must use your incident management application.

| → | Browse Events | i ? 🗙 | | |
|--|--|-------|--|--|
| Event Viewer Þ Open Incident | | | | |
| CNM Incide Close | 2881 nt IM10090 is successfully created. Message | | | |
| *Abstract Equipment problem | ∗Reported By: HELPDESK, BOB | | | |
| *Category network | *Subcategory Ian | | | |
| *Product Type | *Problem Type | | | |
| *Assignment | *Resource GEN_ALRT/DOM,AD1NV/ | | | |
| *Severity 1 - Critical ▼ | +Site Category BLDG1 | | | |
| Incident Description Resource: GEN_ALRT/DOM,A01NV/COMC Type: Creation Time: Mon Aug 22 07:32:48 EDT 2005 (GMT) Severity: Critical Priority: Medium | | | | |
| | | | | |

Figure 62. Incident Creation Message for Peregrine Systems ServiceCenter

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