CA NetMaster® Network Management for TCP/IP

Quick Reference Guide

Release 12.1

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Chapter 1: Introduction

This section contains the following topics:

About This Guide

This guide provides a quick reference to useful commands and system shortcuts that can help you to manage your IP network. It also describes how to customize your Primary Menu so that you can view the state of your IP network quickly.

The information in this guide is brief. For more information, see the online help.

Chapter 2: Panel Format

This section contains the following topics:

Define Primary Menu Format

You can display the Primary Menu in *one* of the following formats:

Classic

Displays the menu options with a description to the right.

Example: Classic Display

```
PROD---------------------- NetMaster : Primary Menu ---------------------------
Select Option ===>

   M   - Monitors                                          Userid USER1
   H   - Historical Data                                   LU     CA11000
   D   - IP Network Diagnosis                              Time   01:25:42
   U   - User Services                                     TUE 08-APR-2008
   O   - Operator Console Services                         OPSYS  z/OS
   A   - Administration and Definition                     Window 1
   X   - Terminate Window/Exit
```

Expanded

Displays a hierarchical format with the first-level initially visible.

Example: Expanded Display

```
PROD----------------------- NetMaster : Primary Menu ----------------------------
Command ===>                                                  Scroll ===> PAGE

                                                .=Expand or Collapse ?=more actions
___ Explore Menu Options:                                      Userid USER1
___ +- M    - Monitors                                         LU     CA11000
___ +- H    - Historical Data                                  Time   01:29:42
    +- D    - IP Network Diagnosis                             TUE 08-APR-2008
___ |- U    - User Services                                    OPSYS  z/OS
___ |- O    - Operator Console Services                        Window 1
___ +- A    - Administration and Definition
___ `- X    - Terminate Window/Exit
```

Collapsed

Displays a hierarchical format with no options initially visible.

Example: Collapsed Display

```
PROD----------------------- NetMaster : Primary Menu ----------------------------
Command ===>                                                  Scroll ===> PAGE

                                                .=Expand or Collapse ?=more actions
___ Explore Menu Options:                                      Userid USER1
```

To define the format of your Primary Menu

1. Enter **PROFILE** at prompt on the Primary Menu.

   The Primary Menu Format Control panel appears.

2. Enter the type of format you want in the Menu Format on Entry field.

3. Press F3 (File).

   The format is saved.

Display IP Summary Display

The IP Summary Display provides a snapshot of the most useful information about your IP environment. It provides the following complementary perspectives:

Condition Summary

Provides an exception-based perspective of your IP environment. It compares a set of IP characteristics with preset conditions. It charts the values of those conditions and reflects their values through the following statuses: OK, WARNING, and PROBLEM.

IP Traffic Summary

Provides an activity-based perspective of your IP environment. It provides traffic throughput statistics and identifies the most active application, port, and addresses.

EE Traffic Explorer

Graphs recent and cumulative Enterprise Extender (EE) traffic throughput.

Alert Summary

Provides a graphical representation of how many alerts are outstanding for each alert severity.

To display the IP Summary Display on its own panel, enter **/IPSUM** at the prompt.

To display the IP Summary Display on the Primary Menu

1. Enter **PROFILE** at the prompt on the Primary Menu.

   The Primary Menu Format Control panel appears.

2. Complete the fields in the IP Summary Display field.

   Note: For information on the fields, press F1 (Help).

   Press F3 (File).

   The IP Summary Display appears at the bottom of the Primary Menu and appears each time you log on to the region.

Chapter 3: Shortcuts

This section provides a quick reference to shortcuts that can help you manage your IP network.

This section contains the following topics:

How to Use a Shortcut

Use shortcuts to access a panel directly.

You can enter a shortcut in *one* of the following ways:

- Enter **/***shortcut name* at the prompt.

  This method retains the current panel on exit.

- Enter **=/***shortcut name* at the prompt.

  This method closes the current panel and returns to the Primary Menu on exit.

Address Spaces and Ports

Use the following shortcuts to display information about address spaces and ports:

/ASINFO

Displays address space information.

/ASMON

Displays address space and port management options.

/ASMON.IC

Displays the current state of active connections to the selected address space.

/ASMON.ICF

Displays the current state of active connections to an address space (advanced).

/ASMON.IL

Displays the current state of active TCP listeners associated with an address space.

/ASMON.TC

Displays traffic statistics for address spaces known to Packet Analyzer.

/ASMON.TRS

Displays information about byte and packet traffic.

/ASPERF

Displays address space performance history options.

/ASPERF.H

Displays performance history for an address space.

/ASPERF.OV

Displays the address space performance overview.

/ASPERF.PC

Displays the monitored CSM attributes.

/ASPERF.PP

Displays an overview of TCP and UDP port performance.

/ASPMON

Displays the IP resource monitor, filtered to display address space resources.

/SMARTAS

Displays the address space SmartTrace options.

/SSXP

Displays statistics on subsystem traffic.

/TELINFO

Displays address space information options for Telnet servers.

Alerts

Use the following shortcut to display information about alerts:

/ALERTS

Displays the alert monitor.

Line Commands

Use the following line commands from the alert monitor to display more information about alerts:

A (Analyze)

Analyzes the alert condition.

S/B (Browse)

Displays alert details.

C (Close)

Closes an alert.

N (Notes)

Displays notes from the alert monitor and lets you add your own notes.

T (Track)

Displays the User ID of the person tracking the alert.

TT (Trouble Ticket)

Raises a trouble ticket.

APPN/HPR Shortcuts

Use the following shortcuts to display information about your APPN/HPR resources:

/APPNHPR

Displays a list of RTP management options.

/RTP

Displays a list of RTP pipes.

/RTPCS

Displays the IP network condition summary.

/RTPE

Accesses the RTP event detector controls.

/RTPH

Displays a list of RTP pipes that indicate performance issues.

/RTPHG

Displays a list of RTP pipes from all connected systems that indicate performance issues.

/RTPMON

Displays a list of APPN/HPR resources in the resource monitor.

/RTPV

Displays a list of VTAM commands useful in diagnosing APPN/HPR problems.

APPN/HPR Commands

Use the following line commands from the resource monitor to display more information about APPN/HPR:

AL (Display Alerts for a Resource)

Displays alerts for a resource.

H (Display Performance History)

Displays performance data. The attribute list shows all performance attributes being monitored for the resource.

OV (Display Performance Overview)

Displays a performance overview which compares the most recent performance of resources.

R (List RTP Pipes)

Displays a list of RTP pipes.

RH (RTP Health Check)

Displays a list of RTP pipes that indicate performance issues

V (RTP VTAM Command List)

Displays a list of VTAM commands useful in diagnosing APPN/HPR problems.

Business Applications

Use the following shortcuts to display information about business applications:

/BIZ

Displays the business application options.

/BIZ.A

Lists business applications and enables you to define one.

/BIZ.H

Displays connection workload attribute list.

/BIZ.OV

Displays performance overview and baselines.

/BIZ.TRS

Displays business application traffic for all applications.

Connections

Use the following shortcuts to display information about connections:

/CEVENTS

Lists the reports that you can select to display connection and event history.

/CONNC

Lists connections.

/CONNCF

Lists connections (advanced).

/CONNCH

Lists connections with history.

/CONNF

Lists FTP connections with information such as client and server, file being transferred, and connection status.

/CONNL

Lists listeners with information such as local port and connection backlog.

/CONNT

Lists Telnet connections.

/CONNTF

Lists Telnet connections (advanced).

/CONNTR

Lists Telnet connections as for /CONNT but with additional information such as response times.

/CONNTRF

Lists Telnet connections (advanced and RTM).

/IPCON

Displays TCP/IP connection options.

CTRACE Packet Tracing

Use the following shortcuts to display information about CTRACE packet tracing:

/CTRACE

Displays CTRACE packet tracing options.

/CTRACE.L

Lists saved CTRACE traces.

/CTRACE.LA

Lists active CTRACE traces.

/CTRACE.PT

Starts CTRACE packet trace.

/CTRACE.PTC

Clears all CTRACE traces.

/CTRACE.SV

Saves CTRACE trace data.

DB2 Network Information Center

Use the following shortcuts to display information about the DB2 network:

/DB2

Displays the DB2 Network Information Center menu.

/DB2.AS

Displays information about DB2 address spaces.

/DB2.D

Enables you to find information about DB2 error codes.

/DB2.IC

Lists the Distributed Data Facility (DDF) IP connections.

/DB2.ICF

Lists the DDF IP connections as for /DB2.IC but with additional information sourced from Packet Analyzer.

/DB2.IL

Lists the DDF Transmission Control Protocol (TCP) listeners.

/DB2.S

Enables you to find information about structured query language (SQL) error codes.

/DB2.SS

Displays statistics on subsystem traffic.

/DB2.ST

Displays Address Space SmartTrace Menu for DDF address spaces.

/DB2.TC

Displays traffic statistics for DDF address spaces known to Packet Analyzer.

/DB2.TRS

Displays the byte and packet traffic for the local server ports associated with a DDF address space.

Diagnostics

Use the following shortcuts to display diagnostic information:

/IFLIST

Displays host interface list.

/IPDIAG

Displays TCP/IP network diagnosis options.

/MIB

Displays the MIBinsight browser.

/MIBUSEC

Displays security details for the MIBinsight browser.

/NETSTAT

Displays Netstat command list.

/PING

Lets you enter the search criteria of the connection you want to ping.

/RTABLE

Lets you enter the search criteria of the routing table you want to display.

/SYSINFO

Displays host system information.

/TELNET

Starts a Telnet connection.

/TRACERT

Lets you enter the search criteria of the traceroute you want to perform.

Enterprise Extender

Use the following shortcuts to display information about Enterprise Extender (EE):

/EE

Displays EE options.

/EECOND

Displays how your EE environment is currently performing.

/EEMON

Displays the IP resource monitor, filtered to display EE resources.

/EEPERH.H

Displays performance data. The attribute list shows all performance attributes being monitored for the resource.

/EEPERF.OV

Displays a performance overview, which compares the most recent performance of resources.

/EERH

Identifies which EE Rapid Transport Protocol (RTP) Pipes have possible health problems.

/EERTP

Displays a list of RTP pipes flowing over the EE connections.

/EETEST

Displays the route taken by EE packets for each of the five ports to the destination host.

/EETRACE.C

Manages traces of packets bound for a selected EE remote control point.

/EETRACE.P

Manages traces of packets for a selected EE UDP port.

/EETRACE.R

Manages traces of packets for a selected RTP pipe.

/EETRACE. U

Traces all EE RTP pipes for a selected priority flowing over one EE connection.

/EETRACE.V

Manages traces of packets for a local VIPA.

/EETRALL

Lists all EE SmartTrace definitions.

/EEPERF.ST

Displays UDP port activity.

/EEUDP

Displays a list of the UDP Connections used by EE.

/EEV

Displays a list of VTAM commands useful when diagnosing problems with EE.

/EEXCA

Displays the XCA major node summary.

/EEXP

Displays a graphical breakdown of total EE traffic.

Line Commands

Use the following line commands from the resource monitor to display more information about EE:

AL (Display Alerts)

Displays alerts.

CT (EE Connectivity Test)

Displays the route taken by the EE packets

H (Display Performance History)

Displays performance data.

The attribute list shows all performance attributes being monitored for the resource.

OV (Display Performance Overview)

Displays a performance overview, which compares the most recent performance of resources.

PT (Activate Packet Trace)

Activates SmartTrace packet tracing.

PTD (Inactivate and Delete Packet Trace)

Inactivates and deletes a SmartTrace packet trace.

PTI (Inactivate Packet Trace)

Inactivates a SmartTrace packet trace.

PTV (View Packet Trace)

Displays a SmartTrace packet trace.

R (List EE RTP Pipes)

Displays a list of RTP pipes currently flowing over EE connections.

RH (RTP Health Check)

Displays RTP pipes with possible health problems.

S (Display XCA Major Node Summary)

Displays XCA major node summary.

ST (Display EE Stack Throughput)

Displays the UDP port activity for EE's stack.

TA (EE Traffic Analysis)

Displays cumulative EE Traffic throughput.

TRP (Real-Time EE Traffic by CP and Priority)

Displays data about byte and packet traffic priority and control point.

TRS (Real-Time EE Traffic, by CP)

Displays data about byte and packet traffic by control point.

UC (Display UDP Connections)

Displays a list of UDP connections.

V (EE VTAM Command List)

Displays a list of VTAM commands useful in diagnosing EE.

History

Use the following shortcuts to display historical information:

/IPGT

Displays IP Growth Tracker.

/IPHIST

Displays TCP/IP data history options.

/IPHIST.B

Displays connection and event history reports.

/IPHIST.CT

Displays all saved CTRACE traces.

/IPHIST.EX

Extracts all TCP/IP events to a data set.

/IPHIST.P

Prints connection and event details, and summaries.

/IPHIST.ST

Displays all saved SmartTrace traces.

/IPTRS

List the type of IP traffic statistics that you can select.

IP Nodes

Use the following shortcut to display information about IP nodes:

/IPNODE

Displays the IP node monitor.

Line Commands

Use the following line commands from the IP node monitor to display more information about IP nodes:

AL (Display Alerts)

Displays alerts.

H (Display Performance History)

Displays performance data.

The attribute list shows all performance attributes being monitored for the resource.

HI (Display Host Interface List)

Displays the host interface list.

IMM (Intensive Monitoring Mode)

Lets you define intensive monitoring parameters for an attribute.

IMR (Intensive Monitor Reset)

Resets the selected IP node to the group attribute rate, effectively switching off intensive monitoring mode.

OV (Display Performance Overview)

Displays a performance overview, which compares the most recent performance of resources.

P (Ping an IP Node)

Pings a foreign host to test connectivity.

PT (Activate Packet Trace)

Activates SmartTrace packet tracing.

PTD (Inactivate and Delete Packet Trace)

Inactivates and deletes a SmartTrace packet trace.

PTI (Inactivate Packet Trace)

Inactivates a SmartTrace packet trace.

PTV (View Packet Trace)

Displays a SmartTrace packet trace.

RT (Display Routing Table)

Displays the routing table.

SI (Display Host System Information)

Displays information about the host system.

TN (Start a Telnet Connection)

Starts a Telnet connection to the selected IP node.

TR (Perform Trace Route)

Sends a trace route request to the selected IP node.

IP Security

Use the following shortcuts to display information about IP security:

/IPSEC

Displays the IPSec menu.

/IPSEC.D

Lists dynamic tunnels.

/IPSEC.F

Lists IP filters.

/IPSEC.H

Displays IP security performance history.

/IPSEC.K

Lists IKE tunnels.

/IPSEC.M

Lists manual tunnels.

/IPSEC.S

Displays IP security summary.

/IPSEC.T

IP security traffic test.

/SECURE

Displays the IP Security menu.

/SECURE.A

Lists the tasks that have active connections using AT-TLS.

/SECURE.F

Lists the users that have active FTP connections.

/SECURE.S

Lists the tasks that have active connections using SSL/TLS.

/SECURE.T

Lists the VTAM applications that have active Telnet connections.

Log

Use the following shortcut to display log information:

/LOG

Displays the activity log.

Monitors

Use the following shortcuts to display monitors:

/ALERTS

Displays the alert monitor.

/GMON

Displays the graphical monitor.

/IPMON

Displays the IP resource monitor.

/IPNODE

Displays the IP node monitor.

OSAs

Use the following shortcuts to display information about Open Systems Adapters (OSAs):

/OSA

Displays OSA management options.

/OSA.D

Displays general information.

/OSA.DL

Displays the OSA device list.

/OSA.H

Displays performance data.

The attribute list shows all performance attributes being monitored for the resource.

/OSA.OAT

Displays the OSA address table (OAT) returned from OSA/SF.

/OSA.OV

Displays a performance overview, which compares the most recent performance of resources.

/OSAMON

Displays the IP resource monitor, filtered to display OSA resources.

Line Commands

Use the following line commands from the resource monitor to display more information about OSAs:

AL (Display Alerts)

Displays alerts.

CF (Display OSA Configuration Settings)

Displays OSA configuration settings.

D/S (Display General Information)

Displays general information.

DL (Display Device List)

Displays OSA device list.

H (Display Performance History)

Displays performance data.

The attribute list shows all performance attributes being monitored for the resource.

OAT (Display OAT Table)

Displays the OSA address table returned from OSA/SF.

OV (Display Performance Overview)

Displays a performance overview, which compares the most recent performance of resources.

Performance

Use the following shortcut to display performance information:

/PERF

Displays performance overview options.

SmartTrace Packet Tracing

Use the following shortcuts to display information about SmartTrace packet tracing:

/LIBPCAP

Imports the packet trace in a libpcap file.

/SMART

Displays SmartTrace packet tracing options.

/TRACES

Lists both active and ended SmartTrace definitions.

/TRADD

Adds a SmartTrace definition.

/TRALL

Lists all SmartTrace traces.

/TRSAV

Lists all saved SmartTrace output.

Line Commands

Use the following line commands to display more information about SmartTrace packet tracing:

. (Expand or Collapse)

Expands a currently collapsed definition or collapses a currently expanded definition.

A (Activate Trace Definition)

Activates tracing for a SmartTrace tracing definition.

D (Delete Trace Definition)

Deletes a SmartTrace trace definition.

DA (Delete Trace Definition and all Saved Traces)

Deletes a saved SmartTrace trace definition and all running, ended, and saved SmartTrace traces.

I (Inactivate Tracing for Trace Definition)

Inactivates tracing for a SmartTrace definition, including running traces.

U (Update Trace Definition)

Displays SmartTrace trace definitions so that you can change the settings.

V (View Trace Definition)

Displays the SmartTrace trace definition.

Stack Interfaces and Devices

Use the following shortcuts to display information about stack interfaces and devices:

/DEVLINK

Displays stack interface and device link options.

/DEVLINK.DL

Displays the devices and links configured for the stack.

/DEVLINK.H

Display stack interface performance history.

/DEVLINK.OV

Display performance overview and baselines.

/DEVLINK.S

Display the busiest interfaces summary.

/DEVLINK.TRP

Display traffic for all interfaces, by protocol.

/DEVLINK.TRS

Display traffic for all interfaces.

Stacks

Use the following shortcuts to display information about stacks:

/CONFIG

Displays stack configuration options.

/SMARTST

Displays SmartTrace packet tracing options for stacks.

/STACK

Displays the stack management options.

/STACK.DL

Displays information about the devices and links configured for the stack.

/STACK.IC

Displays the state of active IP connections.

/STACK.ICF

Displays IP connections derived from the packet analyzer.

/STACK.IPM

Displays an analysis of the stack, which includes TCP, UDP and IP statistics.

/STACK.IT

Displays the state of active Telnet connections.

/STACK.NS

Displays the Netstat command list, which you can issue against the stack.

/STACK.RT

Displays the routing table.

/STACK.S

Displays an activity summary of the stack, in a hierarchical format.

/STACK.TRS

Displays traffic statistics for the stack.

/STKMON

Displays the IP resource monitor, filtered to display stack resources.

/STKPERF

Displays performance history options for the stack.

Line Commands

Use the following line commands from the resource monitor to display more information about stacks:

AL (Display Alerts)

Displays alerts.

CMD (Issue Modify to Stack)

Lets you issue modify commands to a stack.

D (Display Address Space)

Displays resource status.

DL (Display Stack Network Interfaces)

Displays information about the devices and links configured for the stack.

DP (Display Profile Configuration Libraries)

Displays information about the stack configuration.

DT (Graph TCP Connection Duration Times)

Displays the distribution of terminated connections by durations.

H (Display Performance History)

Displays performance data.

The attribute list shows only the performance attributes being monitored for the stack address space.

IC (List IP Connections)

Displays the state of active IP connections.

ICF (Display IP Connections Advanced)

Displays IP connections derived from the packet analyzer.

IF (List FTP Connections)

Lists FTP connections with information such as client and server, file being transferred, and connection status.

IL (List TCP Listeners)

Lists listeners with information such as local port and connection backlog.

IP (Display IP, TCP, and UDP Performance)

Displays performance data about stack IP network, TCP, and UDP protocol activity.

IPM (Display IP, TCP, and UDP Summary)

Displays an analysis of the stack, which includes TCP, UDP and IP statistics.

IS (Display IPSec Performance History)

Displays information about the monitored IPSec attributes.

ISD (List Dynamic Tunnels (IPSec))

List dynamic tunnels for a stack configured with IPSECURITY.

ISF (List IP Filters (IPSec))

Lists IPSec IP filters for a stack configured with IPSECURITY.

ISK (List IKE Tunnels (IPSec))

List Internet Key Exchange (IKE) tunnels for a stack configured with IPSECURITY.

ISM (List Manual Tunnels (IPSec))

List manual tunnels for a stack configured with IPSECURITY.

ISS (Display IPSec Summary)

Displays IPSec status and statistics.

IST (IPSec Traffic Test)

List the IP filters applied to the specified traffic.

IT (List Telnet Connections)

Displays the state of active Telnet connections.

ITF (List Telnet Connections Advanced)

Displays a list of Telnet connections derived from the packet analyzer.

LA (List Applications with IP Connections)

Lists applications with IP connections.

MIB (Display MIBinsight Browser)

Enables you to browse a selected management information base (MIB).

NS (Issue NetStat Command)

Lists the Netstat commands that you can select and issue.

O (Execute Obeyfile)

Executes the OBEYFILE command to make dynamic changes to the stack configuration.

OV (Display Performance Overview)

Displays a performance overview, which compares the most recent performance of resources.

PT (Activate Packet Trace)

Activates SmartTrace packet tracing.

PTD (Inactivate and Delete Packet Trace)

Inactivates and deletes a SmartTrace packet trace.

PTI (Inactivate Packet Trace)

Inactivates a SmartTrace packet trace.

PTV (View Packet Trace)

Displays a SmartTrace packet trace.

RI (List Remote IP Addresses)

Lists the remote IP addresses that have traffic with the stack.

RT (Display Routing Table)

Displays the routing table.

S (Display Stack Performance Summary)

Displays an activity summary of the stack, in a hierarchical format.

SA (Display AT-TLS Summary)

Lists the tasks that have active connections using AT-TLS.

SF (Display FTP Summary)

Lists the users that have active FTP connections.

SS (Display SSL/TLS Summary)

Lists the tasks that have active connections using SSL/TLS.

ST (Display Telnet Summary)

Lists the VTAM applications that have active Telnet connections.

TC (List TCP Application Activity)

Displays traffic statistics for address spaces known to Packet Analyzer.

TRS (Display IP Traffic Statistics)

Displays information about byte and packet traffic.

W (Display Outstanding WTORs for Job/STC)

Displays all outstanding write-to-operator with reply (WTOR) messages.

WC (Display Connection Workload Performance)

Displays performance data for connection workload.

WI (Display Network Interface Performance)

Displays performance data for stack network interface or device link.

WF (Monitor FTP Workload Performance)

Displays performance data for FTP workload.

WT (Display Telnet Workload Performance)

Displays performance data for Telnet workload.

Limits: CIP only.

Summary

Use the following shortcut to display summary information:

/IPSUM

Displays a summary of conditions, IP traffic, and alerts.

Line Commands

Use the following line commands to display more summary information:

. (Expand or Collapse)

Expands a currently collapsed definition or collapses a currently expanded definition.

H (Help)

Displays help or additional information about the selected line.

Telnet Servers

Use the following shortcuts to display information about Telnet servers:

/TELINFO

Displays Telnet server address space options.

/TELINFO.CL

Displays Logical Units (LUs) with problems.

/TELINFO.IT

Displays Telnet connections.

/TELINFO.ITF

Displays Telnet connections (advanced).

/TELINFO.TWL

Displays Telnet workload manager status.

VIPAs

Use the following shortcuts to display information about Virtual IP Addresses (VIPAs):

/VIPA

Displays VIPA management options.

/VIPA.D

Displays general information.

/VIPA.H

Displays performance data.

The attribute list shows all performance attributes being monitored for the resource.

/VIPA.IC

Displays the state of active IP connections.

/VIPA.ICF

Displays IP connections derived from the packet analyzer.

/VIPA.IT

Displays the state of active Telnet connections.

/VIPA.ITF

Displays a list of Telnet connections derived from the packet analyzer.

/VIPA.M

Lets you modify a dynamic VIPA definition using an obeyfile.

/VIPA.OV

Displays a performance overview, which compares the most recent performance of resources.

/VIPAMON

Displays the IP resource monitor, filtered to display VIPA resources.

Line Commands

Use the following line commands from the resource monitor to display more information about Virtual IP Addresses (VIPAs):

AL (Display Alerts)

Displays alerts.

CR (Display Connection Routing Table)

Displays the connection routing table list.

D/S (Display General Information)

Displays general information.

H (Display Performance History)

Displays performance data.

The attribute list shows all performance attributes being monitored for the resource.

IC (List IP Connections)

Displays the state of active IP connections.

ICF (Display IP Connections Advanced)

Displays IP connections derived from the packet analyzer.

IT (List Telnet Connections)

Displays the state of active Telnet connections.

ITF (List Telnet Connections Advanced)

Displays a list of Telnet connections derived from the packet analyzer.

M (Modify VIPA Definition)

Lets you modify a dynamic VIPA definition using an obeyfile.

OV (Display Performance Overview)

Displays a performance overview, which compares the most recent performance of resources.

UM (Update Monitoring Definition)

Updates the monitoring definition.

Chapter 4: Commands

This section provides a quick reference to commands that can help you manage your TCP/IP network. It provides information about the purpose and syntax. For more information about the commands, see the online help.

This section contains the following topics:

How to Issue a Command

You can issue commands from the prompt in Operator Console Services (OCS) or from a Command Entry panel.

To access OCS, enter **=o** at the prompt.

To access command entry, enter **=cmd** at the prompt.

Note: If you issue a command from a command entry panel, more options are available to you, for example, scroll and print.

D Command

The D command displays a VTAM resource.

This command has the following syntax:

```
D  { name | keyword | NET,ID=name }
```

NETSTAT Command

The NETSTAT command displays the current status of TCP/IP resources.

This command has the following syntax:

```
NETSTAT   { ? | netstat_operands }
          <ADDRESS=ip_address_mask >
          < LU=lu_name_mask >
          < APPL=application_name_mask >
          < STACK=stackname | SSID=ssid >
```

NSLOOKUP Command

The NSLOOKUP command finds the name or address of a remote host.

This command has the following syntax:

```
NSLOOKUP   { ? | host_name | ip_address }
           < ADDRTYPE={4 | 6 | ANY} >
```

OBEYFILE Command

The OBEYFILE command executes the IBM TCP/IP configuration commands.

This command has the following syntax:

```
OBEYFILE   { ? | dataset_name }
```

PING Command

The PING command sends echo requests to a remote host.

This command has the following syntax:

```
PING   { ? | host_name | ip_address }
       < ADDRTYPE={4 | 6 | ANY} >
       < COUNT={ 3 | count } >
       < {INTF | INTERFACE }=interface_name >
       < SIZE={ 256 | packetsize } >
       < SRCIP=ip_address >
       < VERBOSE={ NO | YES } >
       < WAIT={ 5 | seconds } >
```

SHOW SOCKETS Command

The SHOW SOCKETS command displays all open sockets that are used to communicate with TCP/IP.

This command has the following syntax:

```
SHOW SOCKETS   < NAME=instance-name >
```

SHOW TCPIP Command

The SHOW TCPIP command displays the use of TCP/IP services by this region.

This command has the following syntax:

```
SHOW TCPIP   < USERS |  STATUS  | AM | SERVERS >
             < NAME=instance-name >
```

SHOW TELNET Command

The SHOW TELNET command displays the current Telnet sessions with this region.

This command has the following syntax:

```
SHOW  TELNET
      < LUNAME=pattern >
```

SHOW USERS Command

The SHOW USERS command displays the users currently signed on.

This command has the following syntax:

```
SHOW   { USERS | USER } < =name >
       < TYPE=usertype >
       < SOURCE=source >
       < IPDETAILS=YES | NO >
```

SYSCMD Command

The SYSCMD command issues a command to the operating system.

Note: SYSCMD is equivalent to MVS; therefore, you can substitute SYSCMD with MVS.

This command has the following syntax:

```
SYSCMD   < CON={ n | MASTER } >
         < WAIT=nnn >
         < MIGID={ * | ASIS | DEFAULT | NO | YES | EXIT } >
         < DATA= > command-text
```

or

```
SYSCMD OPT=LOCK
< WAIT=nnn >
< MIGID={ * | ASIS | DEFAULT | NO | YES | EXIT } >
< DATA= > command-text
```

or

```
SYSCMD OPT=REL
```

TELNET Command

The TELNET command starts a Telnet session to a remote host.

This command has the following syntax:

```
TELNET   { ? | host_name }
         < PORT={ 23 | n } >
         < ID={ host-name | name } >
         < CTRL={ ¢ | c } >
         < ENTER={ CRLF | CR } >
         < MODE={ LINE | OCS | FS } >
         < TRACE={ NO | YES } >
         < TRTAB=name >
         < COLOR=color | COLOUR=color >
         < HLIGHT=highlight | HLITE=hilite >
```

TNCMD Command

The TNCMD command sends Telnet commands to a remote host.

This command has the following syntax:

```
TNCMD   { ? | id }
        < CMD={ IP | AO | AYT | BRK } >
```

TNDISC Command

The TNDISC command stops a Telnet connection immediately.

This command has the following syntax:

```
TNDISC   { ? | id }
```

TNSEND Command

The TNSEND command sends data on a Telnet connection to a remote host.

This command has the following syntax:

```
TNSEND   { ? | id }
         < DATA= > message
```

TRACEROUTE Command

The TRACEROUTE command traces the route TCP/IP packets take to a remote host.

This command has the following syntax:

```
TRACEROUTE   { ? | host_name | ip_address }
             < ADDRTYPE={4 | 6 | ANY} >
             < COUNT={ 3 | count } >
             < FROMHOP={ 1 | number } >
             < HOPS={ 10 | number } >
             < {INTF | INTERFACE }=interface_name >
             < PROTOCOL={ICMP | UDP} >
             < SIZE={ 64 | packetsize } >
             < SRCIP=ip_address >
             < WAIT={ 3 | seconds } >
```

TRCACT Command

The TRCACT command activates a SmartTrace definition.

This command has the following syntax:

```
TRCACT smarttrace_definition_name
```

TRCINACT Command

The TRCINACT command inactivates a SmartTrace definition

This command has the following syntax:

```
TRCINACT smarttrace_definition_name
```