3745 Communication Controller Models A
3746 Nways Multiprotocol Controller
Models 900 and 950

NetView Console
APPN Command Reference Guide

GA33-0479-02

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3746 Nways Multiprotocol Controller
Models 900 and 950

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APPN Command Reference Guide

GA33-0479-02

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page vii.

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This edition applies to the 3745 Communication Controller Models A, and the 3746 Nways® Multiprotocol Controller Models 900 and 950.

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About This Guide

This guide describes the commands available that manage an APPN® network using the Tivoli® NetView® for OS/390® program and IP resources.

Who Should Use This Guide

This guide is for the network administrator who remotely manages a network.

How This Guide Is Organized

The guide consists of the following chapters and appendixes:

Chapter 1 Gives an introduction to Communication Manager/2 Service Point functions

Chapter 2 Gives the RUNCMD implementation specifications

Chapter 3 Lists the NetView RUNCMD commands

Chapter 4 Lists the configuration commands

Chapter 5 Lists all network management commands

Appendix A Gives examples of REXX clist

Appendix B Gives the customer documentation bibliographies

Appendix X Gives the abbreviations used in this guide, the glossary of terms that might be unfamiliar, and the index

What Is New in This Guide

This guide has been revised to include the following RUNCMDs that have been added or enhanced for 3746 control from NetView:

- Activate a configuration
- List all ports
- List all ports by status
- List all ports by DLC name
- List ports by status and DLC
- List all ports by wildcard portname
- List a port's characteristics by port number
- Display the details view for a given port name
- Display the details view for a given port number
- List all sessions
- Retrieve a page of sessions list with listid
- List sessions by LU alias name
- List sessions by mode name
- List sessions by partners mode and alias name
- List sessions by station name
- Delete a list of APPN directory entries by name
- Delete a list of APPN directory entries by index
- Display the APPN connectivity counters

The technical changes and additions are indicated by a vertical line (|) to the left of the change.

Related Publications

Additional and detailed information are available in the following publications:

- *TME 10 NetView for OS/390 Customization: Using REXX and the NetView Command List Language*, SC31-8231
- *TME 10 NetView for OS/390 Command Reference*, SC31-8227
- CM/2 Service Point Application Router and Remote Operation Service Guide, SC31-7006
- *TME 10 NetView for OS/390 User's Guide*, GC31-8241
- *SAA Common Programming Interface REXX Level 2 Reference*, SC24-5549.

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Chapter 1. Introduction

This guide describes the commands available that manage an APPN® network using the Tivoli® NetView® for OS/390® program and IP resources.

The NetView NCCF RUN command (RUNCMD) routes commands to a service point for processing by one of the service point applications. This facility is based on the use of the Service Point Application Router (SPA Router) and Remote Operations Service (ROP Service) functions of IBM Communication Manager/2 (CM/2).

Introduction to Communication Manager/2 Service Point Functions

To manage a network remotely, you can initiate commands from the NetView program that are processed on a workstation running Operating System/2® (OS/2®). The standard output generated by a command is returned to the NetView program.

Note: Throughout this document, NetView program refers to the host NetView program, and not to the NetView/PC program.

The two components Service Point Application Router (SPA Router) and Remote Operations Service (ROP Service) provide this network management capability. SPA Router and ROP Service provide the following features:

- Support of multiple local area networks (LANs) and multiple physical units (PUs)
- Administration of a large area
- A tool for system administration
- Administration of different domains

SPA Router and ROP Service Function

SPA Router is an OS/2 program that receives a command from a NetView program to the specified application. The application can be any OS/2 program-based product that runs in protected mode. The advantage of having a separate program – SPA Router – that directs the applications is that multiple OS/2 applications can receive commands concurrently.

ROP Service is an application that processes (on the OS/2 workstation) the commands sent by the NetView program through SPA Router. The commands sent to ROP Service can be any OS/2 commands that have a command line interface and that do not need interactive user input.

In addition to using ROP Service, you can send commands from the NetView program through SPA Router to IBM LAN Network Manger Version 1.1 or higher, and you can use the application programming interface (API) for SPA Router to develop your own applications.

Using REXX Executable Files and Command Lists

You can use REXX executable files (execs) and command lists (CLISTs) to automate the process of issuing RUNCMDs. Operating the NetView program, provides examples of REXX execs and a CLIST that you might find useful when developing your own REXX execs and CLISTs (see Appendix A, “APPN Network Management Commands in NetView RUNCMD - Netview Procedures (REXX)” on page A-1 for examples).

Operating the NetView Program

With the exception of using the format previously described, you use the NetView program with SPA Router and ROP Service the same way you use the NetView program with other applications.

Chapter 2. RUNCMD Implementation Specifications

Each RUNCMD **3746_APPN_Management_Command** issued by NetView is processed by the service point (the service processor) in the following order:

1. The **3746_APPN_Management_Command** is analyzed and mapped on the corresponding Service Processor (SP) and Network Node Processor (NNP) corresponding command which can be a subset of a:
   - Manage NNP command
   - CCM configuration command
   - CCM Management command
2. The mapped command is then executed by the SP or sent to the NNP via the current remote procedure call (RPC) interface already implemented between the SP and the NNP.
3. If the command is executed in the NNP, it returns the results to the SP.
4. The results are postprocessed by the **3746_APPN_Management_Command** according to the parameter list.
5. The final results are sent back through the standard output to NetView via the ROP Service.

Figure 2-1 illustrates the process.

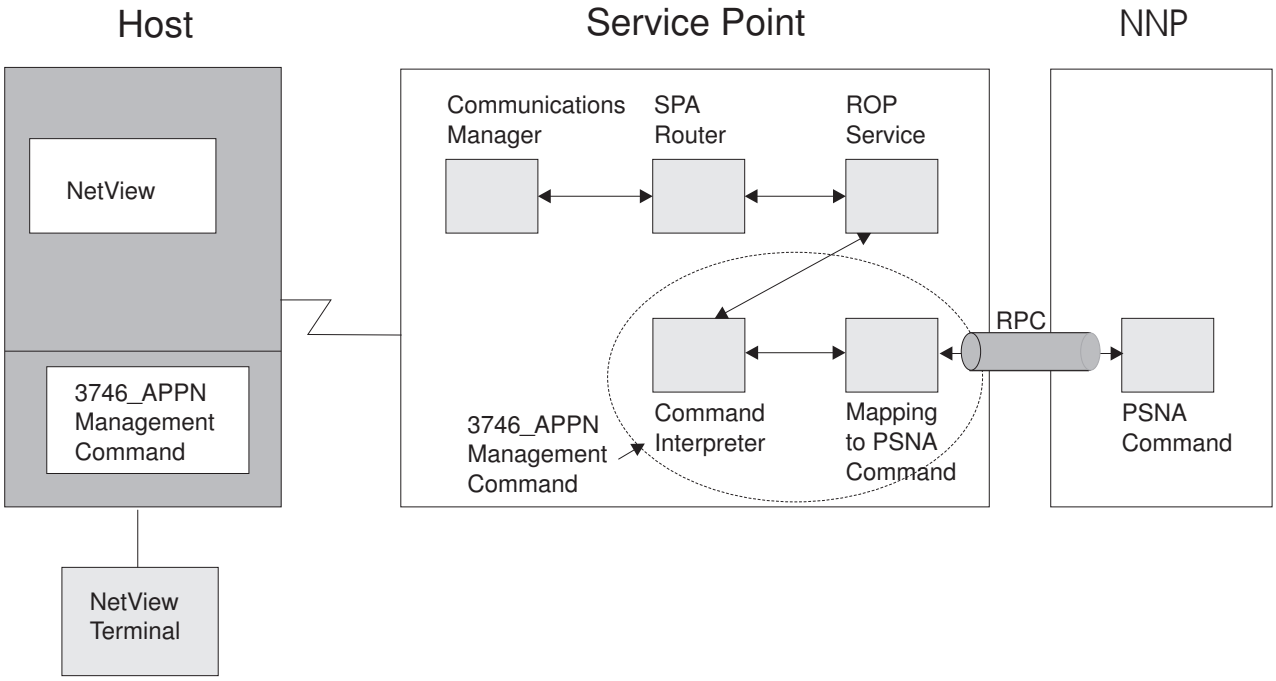


Figure 2-1. Structure of the RUN Command within SP/NNP

Note: The Communication Manager/2 limits the data length returned to the NetView program to 32 KB. This limitation can lead to some specific processing and commands. This is indicated when applicable.

Service Processor as Service Point

The SP customization program allows you to enable the NetView RUN command from the SP Customization Panel. This is located in the **NetView Link(s)/Reporting Customization** panel, where a checkbox enables the **NetView RUNCMD** feature (see Figure 2-2).

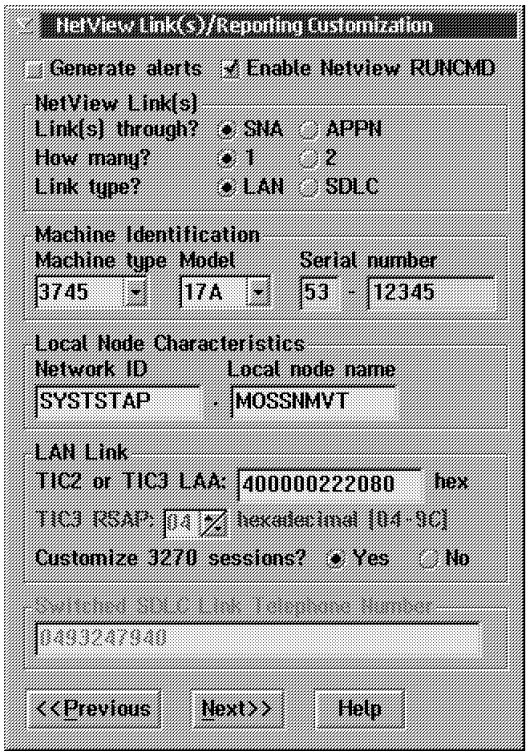


Figure 2-2. NetView Link(s)/Reporting Customization Panel

Enabling NetView RUNCMD

The new checkbox is available when at least one NNP is installed, otherwise it is grayed out.

Groups of Commands

Three groups of commands are provided by the NetView RUNCMD.

1. NNP and control point management commands
2. Control point configuration management commands
3. APPN® management commands

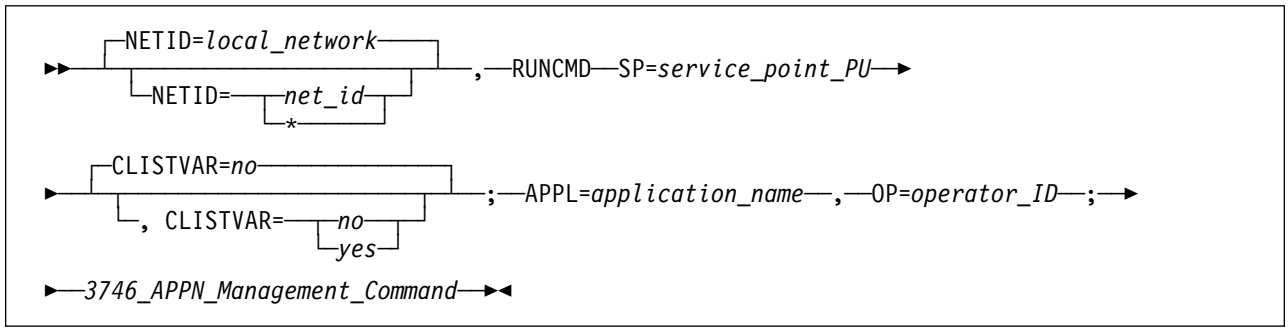
Multiple NetView Management

Several NetView programs can send the RUNCMD concurrently to the SP. The serialization of the commands is performed by the ROP Service component that queues the commands. Each command is executed, the results are passed back, and then ROP Service dequeues the next command and so on.

Conflicting commands could be issued by different operators. It is your responsibility as network administrator to manage the network.

What Has Been Implemented in the Service Point

Based on the RUNCMD, the 3746 APPN commands described in this and the following chapters use the following syntax.



Where:

NETID
Specifies the network identifier of the network in which the service point is located. It corresponds to the Network ID specified in the NetView Links(s) Reporting Customization panel of the SP customization (see Figure 2-2 on page 2-2). If there is another node or logical unit (LU) in any connected network with the same name as the service point you specified on the SP operand, communication is allowed only if VTAM® locates that service point based solely on the LU name (*spname*) of the NETID. NETID can be specified as one of the following:

local_network
Specifies to search for the target service point only in local network. This is the default if NETID is not specified.

net_id
Specifies the network in which to search for the target service point. The *net_id* must be a 1-8 character value using only the EBCDIC characters 0-9 and A-Z. At least one of the characters must be alphabetic.

*****
Specifies to search for the target service point in any network.

service_point_PU
Is the physical unit (PU) of the service point that the command is sent to. It corresponds to the Local node specified in the NetView Links(s) Reporting Customization panel of the of the SP customization (see Figure 2-2 on page 2-2).

application_name
Is the name of the application that the command is sent to. The name of the application in the SP is **REMOTEOP**.

operator_ID
Is the operator ID of the NetView account issuing the command.

Note: It is used for ROP Service only. Therefore, the operator_ID can be null, that is, **OP=;**.

CLISTVAR
Specifies whether to save replies in command list variables. You can use only CLISTVAR when coding the RUNCMD command in a command list. For more information, refer to "Common Operations Services Commands" in *TME 10*

NetView for OS/390 customization: Using REXX and the NetView Command List Language, SC31-8231.

no
Does not save replies in command list variables. No is the default.

yes
Saves replies in command list variables.

3746_APPN_Management_Command
The 3746 APPN management command being issued. Only the commands documented in this manual are supported (see Chapter 3, "3746 APPN, Manage NNP and CP Commands," Chapter 4, "3746 APPN Manage Configurations Commands," and Chapter 5, "3746 APPN Network Management Commands"). Unsupported commands cause the service point ROP to return the following error message:

```
ROP1013: The requested command is not allowed
```

Note: If your RUNCMD addresses a service point that is not at corresponding EC level (which is at least F64810), your NCCF console will no longer accept commands, because the RUNCMD is waiting for a solicited response from the service point. Use the DISPCMD and CANCMD commands to cancel the RUNCMD.

Chapter 3. 3746 APPN, Manage NNP and CP Commands

This chapter lists the commands defined in the SP that manage the NNP and its Control Point (CP) that are available through the NetView RUNCMD.

NNP and CP management commands available through the NetView RUNCMD are similar to those defined in the SP Manage Control Points (CP) on the NNPs panel. For more details about NNP and CP management, refer to the “Manage Control Points on NNPs” section of chapter 4 in the *IBM 3746 Nways Multiprotocol Controller Model 950 User’s Guide*.

The NNP and CP management commands are accepted for execution at the Service Point if the CP/NNP backup option is **not** enabled on the Manage Control Points (CP) on NNPs panel. Otherwise, the program returns the following message:

```
COMMAND REJECTED FOR THE CURRENT NNP/CP STATUS
```

Example:

```
NNP /DUMPCP
Start of Output ¬ERS5NMVT| NNP /DUMPCP

COMMAND REJECTED FOR THE CURRENT NNP/CP STATUS

End of Output  ¬ERS5NMVT| NNP /DUMPCP
```

NNP Status Command

Syntax

This command returns the current status of the active NNP and, if applicable, indicates whether a dump of the NNP control point is occurring after you issue an NNP/DUMPCP command. The status of the active NNP might be:

```
NNP DOWN
NNP STANDBY
NNP LINK WITH 3746 NOT READY
NNP LINK WITH 3746 READY
NNP LINK WITH 3746 OPERATIONAL
NNP WAITING OPERATOR ACTIVATION
```

If a dump of the NNP control point is occurring, the following string is also returned:

```
APPN DUMP CP IS RUNNING
```

Command Example

NNP /STATUS

Command Results

```
Start of output ¬BS4NMVT | NNP /STATUS

NNP LINK WITH 3746 OPERATIONAL
APPN DUMP CP IS RUNNING

End of output ¬BS4NMVT | NNP /STATUS
```

Start CP

Syntax

This command starts the control program and returns the string `STARTING CONTROL PROGRAM` when the command is accepted, or else the string `COMMAND REJECTED FOR THE CURRENT NNP STATUS` when the command is incompatible with the current NNP status.

Table 3-1. Rules to Accept the Command with One NNP

NNP Status	**Command**
NNP Down	Rejected
NNP Standby	Accepted
NNP Waiting Operator Activation	Rejected
NNP Link with 3746 Not Ready	Rejected
NNP Link with 3746 Ready	Rejected
NNP Link with 3746 Operational	Rejected

You must verify the completion of the command by issuing an **NNP /STATUS** command.

Stop CP

Syntax

```
►►—NNP /STOPCP—►◄
```

This command stops the control program and returns the string `STOPPING CONTROL PROGRAM` when the command is accepted, or else the string `COMMAND REJECTED FOR THE CURRENT NNP STATUS` when the command is incompatible with the current NNP status.

Note: This command should be used if you selected the option **Link(s) through SNA** in the **NetView Link(s)/Reporting Customization** panel (see Figure 2-2 on page 2-2). Otherwise, the link between the NetView focal point and the SP service point is broken. In this case, the link must be reestablished manually on the SP.

Table 3-2. Rules to Accept the Command with One NNP

NNP Status	**Command**
NNP Down	Rejected
NNP Standby	Rejected
NNP Waiting Operator Activation	Accepted
NNP Link with 3746 Not Ready	Accepted
NNP Link with 3746 Ready	Accepted
NNP Link with 3746 Operational	Accepted

You must verify the completion of the command by issuing an **NNP /STATUS** command.

Stop and Restart the CP

Syntax

This command stops and restarts the control program and returns the string `RESTARTING CONTROL PROGRAM` when the command is accepted, or else the string `COMMAND REJECTED FOR THE CURRENT NNP STATUS` when the command is incompatible with the current NNP status.

Table 3-3. Rules to Accept the Command with One NNP

NNP Status	**Command**
NNP Down	Rejected
NNP Standby	Rejected
NNP Waiting Operator Activation	Accepted
NNP Link with 3746 Not Ready	Accepted
NNP Link with 3746 Ready	Accepted
NNP Link with 3746 Operational	Accepted

You must verify the completion of the command by issuing an **NNP /STATUS** command.

Activate Configuration

Syntax

```
►►──NNP /ACTIVECP──►◄
```

This command allows you to activate the current configuration when the automatic activation control is not activated.

It returns the string `ACTIVATING CONTROL PROGRAM` when the command is accepted, or else the string `COMMAND REJECTED FOR THE CURRENT NNP STATUS` when the command is incompatible with the current NNP status.

Notes:

1. If you selected the option **Link(s) through SNA** in the **NetView Link(s)/Reporting Customization** panel (see Figure 2-2 on page 2-2), the message `COMMAND ID x IS LONG RUNNING` is displayed. This means that the command takes longer than 60 seconds to run, but you can start another command during this time.
2. If you selected the option **Link(s) through APPN**, no answer is returned.

Table 3-4. Rules to Accept the Command with One NNP

NNP Status	Command
NNP Down	Rejected
NNP Standby	Rejected
NNP Waiting Operator Activation	Accepted
NNP Link with 3746 Not Ready	Rejected
NNP Link with 3746 Ready	Rejected
NNP Link with 3746 Operational	Rejected

You must verify the completion of the command by issuing an **NNP /STATUS** command.

Restart NNP

Syntax

This command shuts down the NNP and reboots it automatically. If the automatic activation is selected, the control program is started.

It returns the string `REACTIVATING NETWORK NODE PROCESSOR` when the command is accepted, or else the string `COMMAND REJECTED FOR THE CURRENT NNP STATUS` when the command is incompatible with the current NNP status.

Table 3-5. Rules to Accept the Command with One NNP

NNP Status	**Command**
NNP Down	Rejected
NNP Standby	Accepted
NNP Waiting Operator Activation	Accepted
NNP Link with 3746 Not Ready	Accepted
NNP Link with 3746 Ready	Accepted
NNP Link with 3746 Operational	Accepted

You must verify the completion of the command by issuing an **NNP /STATUS** command.

Dump CP

Syntax

```
►►—NNP /DUMPCP—►◄
```

This command triggers a dump of the NNP control point and returns the string `APPN CP DUMP IS IN PROGRESS` when the command is accepted. Otherwise, it returns the string `UNABLE TO TAKE THE APPN CONTROL PROGRAM DUMP` when the command is incompatible with the current active NNP status or when a dump of the APPN control program is still occurring.

Table 3-6. Rules to Accept the NNP/DUMPCP versus NNP Status

NNP Status	Control Program Dump
Down	No
Standby	No
Waiting Operator Activation	No
Link Not Ready	No
Link Ready	Yes
Link Operational	Yes

The result of an NNP control program dump is stored in a file on the NNP hard disk. The NNP keeps two dump files and uses them in a flip-flop manner. A dump request is performed only if the dump file with the oldest time stamp can be overwritten, that is, at least 8 minutes have elapsed since the dump file's creation. Therefore, you should use the NNP /DUMPCP command carefully, keeping in mind the required 8-minute delay.

Command Example

NNP /DUMPCP

Command Results

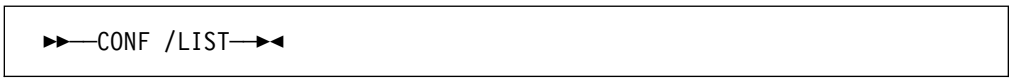
```
Start of Output ¬ERS5NMVT| NNP /DUMPCP

APPN DUMP CP IS IN PROGRESS

End of Output  ¬ERS5NMVT| NNP /DUMPCP
```

Chapter 4. 3746 APPN Manage Configurations Commands

This chapter lists the commands defined in the SP that manage the 3746 configurations that are available through the NetView RUNCMD.

List All Configurations

Syntax



This command gives the list of all the configuration defined with CCM.

Command Example

conf /list

Command Result

```
   Start of Output ¬BS8NMVT | CONF /LIST

   Configuration name           MMM-DD-YYYY   HH:MM
 -  BS8_nissbz_384DLCI CIR      Jan-03-2000   01:41
 -  BS8_nissbz_384DLCI nipadd   Jan-03-2000   04:04
 -  BS8-mutiPPP SU4-OSPF only   May-09-2000   15:49
 A  BS8 MCL 840 + IP            May-09-2000   15:50
 -  BS8 MCL 871 + IP            May-31-2000   14:52
 -  BS8_SVTREG_6.0              Jul-08-1998   10:23
 -  BS8_nissbz_384DLCI          Aug-26-1998   14:11
 -  BS8_SVT_7A                  Sep-10-1998   16:00
 -  BS8_nissbz_comrate164K      Nov-02-1999   11:01

   End of Output ¬BS8NMVT | CONF /LIST
```

Note: The configurations listed are only the compatible configurations (same level).

Activate a Configuration

Syntax

```
►►—CONF /ACTIVATE /NAME=—"configuration name"[/NOIML]—►◄
```

This command performs all the processing tasks that activate a new configuration whose name is *configuration name*. The name of the new configuration to be activated must be enclosed between two sets of quotation marks. The optional parameter /NOIML can be specified to prevent the ESCON adapters from being re-IMLed during the activation of this new configuration. If the configuration *configuration name* does not exist, the string `THE CONFIGURATION IS NOT FOUND` is returned.

How to Activate a Configuration

1. Issue the command **CONF /ACTIVATE /NAME="configuration name"**.
2. Check the response `THE CONFIGURATION <configuration name> IS BEING ACTIVATED`.

   Note: Two cases:
   - If the option **Link(s) through SNA** has been selected in the NetView Link(s)/Reporting Customization panel (see Figure 2-2 on page 2-2), the message `COMMAND ID x IS LONG RUNNING` is displayed. The command is longer than 60 seconds and permits another command to start.
   - If the option **Link(s) through APPN** has been selected, no answer is returned.
3. Issue the command **NNP /STATUS** to get the NNP status until the status `NNP LINK WITH 3746 OPERATIONAL` is returned.

Note: This operation can take up to 20 minutes.

Command Examples

conf /activate /name="BS8 MCL 871 + IP"

```
Start of Output ¬BS8NMVT |CONF /ACTIVATE /NAME="BS8 MCL 871 + IP"

THE CONFIGURATION "BS8 MCL 871 + IP"  IS BEING ACTIVATED

End of Output ¬BS8NMVT |CONF /ACTIVATE /NAME="BS8 MCL 871 + IP"
```

conf /activate /name="ERS4 BIGNET / Last level" /noiml

```
Start of Output ¬ERS4NMVT |CONF /ACTIVATE /NAME="ERS4 BIGNET / Last level" /NOIML

THE CONFIGURATION "ERS4 BIGNET / Last level" IS BEING ACTIVATED WITHOUT ESCON RE-IML

End of Output ¬ERS4NMVT |CONF /ACTIVATE /NAME="ERS4 BIGNET / Last level"  /NOIML
```

Chapter 5. 3746 APPN Network Management Commands

This chapter lists the commands, available through the Netview RUNCMD, that manage the APPN network objects related to:

- Ports
- Stations
- Non-intermediate sessions
- APPN-specific:
  - Network topology
  - Network node information
  - Directory
  - Connection network information
  - HPR connections
  - Connectivity counters

List All Ports

Syntax

This command returns the list of all ports. The contents of the list are similar to the contents of the list displayed by CCM (Main panel: **Management** -> **Ports**), plus the maximum number of incoming calls (**in/calls**). The maximum number of incoming calls has a significance for token-ring ports (DLC Name = IBMTRNET) and APPN frame-relay ports (DLC name = FR). For other types of ports, the string `N/A` (not applicable) is displayed instead.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

Port /list

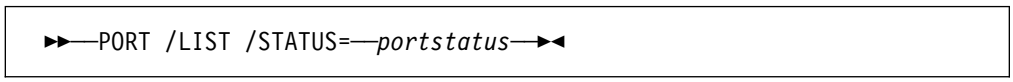
Command Result

```
Start of Output ¬ERS3NMVT| PORT /LIST

PORT /LIST COMMAND EXECUTED
Port Name   Port# LS#  IN/Calls  Status          DLC Name    Type
APPN2080    2080  2    500       ACTIVATED       IBMTRNET    SAF
E3FR2311    2311  1    1000      ACTIVATED       FR          SAF
E3IP2144    2144  0    N/A       ACTIVATED       TR_IP       SAF
E3IP2300    2300  0    N/A       ACTIVATED       PPP         LEASED
E3IP2384    2284  0    N/A       ACTIVATED       PPP         LEASED
E3IP2400    2400  0    N/A       ACTIVATED       TR_IP       SAF
E3IP2432    2432  0    N/A       ACTIVATED       TR_IP       SAF
ES2176A     2176  1    N/A       ACTIVATED       ESCON       SAF
ESC3008     3008  1    N/A       ACTIVATED       ESCON       SAF
FH2496AP    2496  2    1000      ACTIVATED       FR          SAF
FR2240AP    2240  1    3000      ACTIVATED       FR          SAF
FR2688AP    2688  0    1000      ACTIVATING      FR          SAF
FR2689AP    2689  0    1000      ACTIVATING      FR          SAF
FR2690AP    2690  0    1000      ACTIVATING      FR          SAF
FR2691AP    2691  0    1000      ACTIVATING      FR          SAF
FR2692AP    2692  0    1000      ACTIVATING      FR          SAF
FR2693AP    2693  0    1000      ACTIVATING      FR          SAF
FR2694AP    2694  0    1000      ACTIVATING      FR          SAF
FR2695AP    2695  0    1000      ACTIVATING      FR          SAF
FR2696AP    2696  0    1000      ACTIVATING      FR          SAF
FR2697AP    2697  0    1000      ACTIVATING      FR          SAF
FR2698AP    2698  0    1000      ACTIVATING      FR          SAF
FR2699AP    2699  0    1000      ACTIVATING      FR          SAF
FR2700AP    2700  0    1000      ACTIVATING      FR          SAF
FR2701AP    2701  0    1000      ACTIVATING      FR          SAF
FR2702AP    2702  0    1000      ACTIVATING      FR          SAF
FRAP2635    2635  0    1000      ACTIVATING      FR          SAF
FRAP2653    2653  0    1000      ACTIVATING      FR          SAF
```

```
|                    FRAP2732    2732  0    1000      ACTIVATING       FR          SAF
|                    FRAP2984    2984  0    1000      ACTIVATING       FR          SAF
|                    FRFH2296    2296  1    3000      ACTIVATED        FR          SAF
|                    FRFH2560    2560  1    1000      ACTIVATED        FR          SAF
|                    LL2176      2176  11   N/A       ACTIVATED        ESCON       SAF
|                    LL217602    2176  1    N/A       ACTIVATED        ESCON       SAF
|                    SD2276AP    2276  10   N/A       ACTIVATED        SDLC        LEASED
|                    SD2721AP    2721  10   N/A       ACTIVATED        SDLC        LEASED
|                    SD2723AP    2723  10   N/A       ACTIVATED        SDLC        LEASED
|                    SD2726AP    2726  10   N/A       ACTIVATED        SDLC        LEASED
|                    SD2728AP    2728  10   N/A       ACTIVATED        SDLC        LEASED
|                    SD2748AP    2748  10   N/A       ACTIVATED        SDLC        LEASED
|                    SD2749AP    2749  10   N/A       ACTIVATED        SDLC        LEASED
|                    SD2750AP    2750  10   N/A       ACTIVATED        SDLC        LEASED
|                    SDLC2625    2625  5    N/A       ACTIVATED        SDLC        LEASED
|                    SDLC2626    2626  5    N/A       ACTIVATED        SDLC        LEASED
|                    TIC2080I    2080  0    N/A       ACTIVATED        TR_IP       SAF
|                    TIC2144A    2144  0    1250      ACTIVATED        IBMTRNET    SAF
|                    TIC2368A    2368  0    1250      ACTIVATED        IBMTRNET    SAF
|                    TIC2400A    2400  0    1250      ACTIVATED        IBMTRNET    SAF
|                    TIC2432A    2432  0    1250      ACTIVATED        IBMTRNET    SAF
|                    TIC2464A    2464  0    1250      ACTIVATED        IBMTRNET    SAF
|                    TIC2816A    2816  4    4000      ACTIVATED        IBMTRNET    SAF
|                    TIC2848A    2848  4    4000      ACTIVATED        IBMTRNET    SAF
|                    XAP2304     2304  0    N/A       ACTIVATING       X25         SAF
|                    ESP3008     3008  0    N/A       NOT_ACTIVE       ESCON       SAF
|                    FR2316IP    2316  0    N/A       NOT_ACTIVE       FR_IP       SAF
|                    FRAP2294    2294  0    3000      NOT_ACTIVE       FR          SAF
|                    SD2280AP    2280  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2288AP    2288  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2722AP    2722  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2724AP    2724  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2725AP    2725  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2727AP    2727  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2744AP    2744  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2745AP    2745  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2746AP    2746  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SD2747AP    2747  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    SDLC2976    2976  0    N/A       NOT_ACTIVE       SDLC        LEASED
|                    Nb items of whole list = 67

|                    End of Output ¬ERS3NMVT| PORT /LIST
```

List All Ports by Status

Syntax



portstatus Possible values are:

activated
activating
deactivating
not_active

This command returns the list of the ports with the status *portstatus*.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

Port /list /status=not_active

Command Result

```
| Start of Output ¬ERS3NMVT| PORT /LIST /STATUS=NOT_ACTIVE

| PORT /LIST /STATUS=NOT_ACTIVE COMMAND EXECUTED
| Port Name   Port# LS#  IN/Calls  Status          DLC Name    Type
| ESP3008     3008  0    N/A       NOT_ACTIVE      ESCON       SAF
| FR2316IP    2316  0    N/A       NOT_ACTIVE      FR_IP       SAF
| FRAP2294    2294  0    3000      NOT_ACTIVE      FR          SAF
| Nb items of whole list = 3

| End of Output ¬ERS3NMVT| PORT /LIST /STATUS=NOT_ACTIVE
```

List All Ports by DLC Name

Syntax

```
►►──PORT /LIST /DLC=──dlcname──►◄
```

dlcname Possible values are:

tr_ip
fr_ip
fr
sdlc
ppp
ibmtrnet
escon
escon_ip
x25
ip_x25

This command returns the list of the ports with the DLC name *dlcname*.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Examples

port /list /dlc=fr

```
Start of Output ¬ERS4NMVT| PORT /LIST /DLC=FR

PORT /LIST /DLC=FR COMMAND EXECUTED
Port Name   Port# LS#  IN/Calls    Status          DLC Name    Type
FR2240AP    2240  4    1000        ACTIVATED       FR          SAF
FR2272A     2272  64   1000        ACTIVATED       FR          SAF
FR2326AP    2326  1    1000        ACTIVATED       FR          SAF
FR2592AP    2592  4    1000        ACTIVATED       FR          SAF
FRAP2332    2332  1    3000        ACTIVATED       FR          SAF
FRBAN       2496  4    1000        ACTIVATED       FR          SAF
FR2304      2304  0    3000        NOT_ACTIVE      FR          SAF
FR2568AP    2568  0    1000        NOT_ACTIVE      FR          SAF
Nb items of whole list = 8

End of Output ¬ERS4NMVT| PORT /LIST /DLC=FR
```

port /list /dlc=fr_ip

```
|                    Start of Output ¬ERS4NMVT| PORT /LIST /DLC=FR_IP

|                    PORT /LIST /DLC=FR_IP COMMAND EXECUTED
|                    Port Name   Port# LS#   IN/Calls   Status          DLC Name    Type
|                    FR2240IP    2240  2     N/A        ACTIVATED       FR_IP       SAF
|                    FR2272I     2272  23    N/A        ACTIVATED       FR_IP       SAF
|                    FR2326IP    2326  1     N/A        ACTIVATED       FR_IP       SAF
|                    FR2592IP    2592  2     N/A        ACTIVATED       FR_IP       SAF
|                    Nb items of whole list = 4

|                    End of Output ¬ERS4NMVT| PORT /LIST /DLC=FR_IP
```

List Ports by Status and DLC

Syntax

```
►►──PORT /LIST /STATUS=──portstatus──/DLC=──dlcname──►◄
```

portstatus Possible values are:

activated
activating
deactivating
not_active

dlcname Possible values are:

tr_ip
fr_ip
fr
sdlc
ppp
ibmtrnet
escon
escon_ip
x25
ip_x25

This command returns the list of the ports with the status *portstatus* and the DLC name *dlcname*.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Examples

port /list /status=activated /dlc=ppp

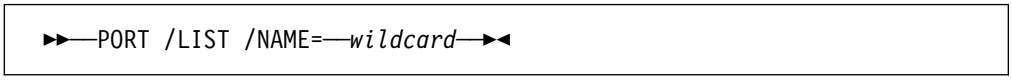
```
Start of Output ¬ERS3NMVT| PORT /LIST /STATUS=ACTIVATED /DLC=PPP

PORT /LIST /STATUS=ACTIVATED /DLC=PPP COMMAND EXECUTED
Port Name   Port# LS#   IN/Calls   Status          DLC Name    Type
E3IP2300    2300  0     N/A        ACTIVATED       PPP         LEASED
E3IP2384    2284  0     N/A        ACTIVATED       PPP         LEASED
Nb items of whole list = 2

End of Output ¬ERS3NMVT| PORT /LIST /STATUS=ACTIVATED /DLC=PPP
```

port /list /status=activated /dlc=ibmtrnet

```
| Start of Output ¬ERS3NMVT| PORT /LIST /STATUS=ACTIVATED /DLC=IBMTRNET

| PORT /LIST /STATUS=ACTIVATED /DLC=IBMTRNET COMMAND EXECUTED
| Port Name   Port# LS#   IN/Calls   Status           DLC Name    Type
| APPN2080    2080  2     500        ACTIVATED        IBMTRNET    SAF
| TIC2144A    2144  0     1250       ACTIVATED        IBMTRNET    SAF
| TIC2368A    2368  0     1250       ACTIVATED        IBMTRNET    SAF
| TIC2400A    2400  0     1250       ACTIVATED        IBMTRNET    SAF
| TIC2432A    2432  250   1250       ACTIVATED        IBMTRNET    SAF
| TIC2464A    2464  250   1250       ACTIVATED        IBMTRNET    SAF
| TIC2816A    2816  254   4000       ACTIVATED        IBMTRNET    SAF
| TIC2848A    2848  254   4000       ACTIVATED        IBMTRNET    SAF
| Nb items of whole list = 8

| End of Output ¬ERS3NMVT| PORT /LIST /STATUS=ACTIVATED /DLC=IBMTRNET
```

List All Ports by Wildcard Portname

Syntax



wildcard

This command returns the list of the ports matching the portname *wildcard*. The string enter for *wildcard* must be one of the following:

- *
- *xyz*
- xyz*
- *xyz

where *xyz* is any character.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

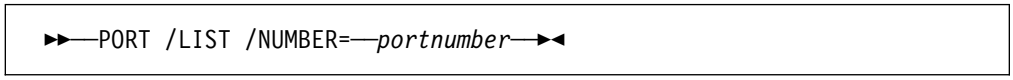
port /list /name=tic*

Command Result

```
Start of Output ¬ERS3NMVT| PORT /LIST /NAME=TIC*

PORT /LIST /NAME=TIC* COMMAND EXECUTED
Port Name   Port# LS#   IN/Calls   Status          DLC Name    Type
TIC2080I    2080  0     N/A        ACTIVATED       TR_IP       SAF
TIC2144A    2144  0     1250       ACTIVATED       IBMTRNET    SAF
TIC2368A    2368  0     1250       ACTIVATED       IBMTRNET    SAF
TIC2400A    2400  0     1250       ACTIVATED       IBMTRNET    SAF
TIC2432A    2432  250   1250       ACTIVATED       IBMTRNET    SAF
TIC2464A    2464  250   1250       ACTIVATED       IBMTRNET    SAF
TIC2816A    2816  254   4000       ACTIVATED       IBMTRNET    SAF
TIC2848A    2848  254   4000       ACTIVATED       IBMTRNET    SAF
Nb items of whole list = 8

End of Output ¬ERS3NMVT| PORT /LIST /NAME=TIC*
```

List a Port's Characteristics by Port Number

Syntax



This command returns the characteristics of a port identified by its 4-digit port number. If the port number is invalid or does not exist, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

port /list /number=2080

Command Result

```
| Start of Output ¬ERS4NMVT| PORT /LIST /NUMBER=2080

| PORT /LIST /NUMBER=2080 COMMAND EXECUTED
| Port Name   Port# LS#   IN/Calls   Status          DLC Name    Type
| APPN2080    2080  2     500        ACTIVATED       IBMTRNET    SAF
| IP2080      2080  0     N/A        ACTIVATED       TR_IP       SAF
| Nb items of whole list = 2

| End of Output ¬ERS4NMVT| PORT /LIST /NUMBER=2080
```

Display the Details View for a Given Port Name

Syntax

```
►►──PORT /DETAILS /NAME=──portname──►◄
```

portname The *portname* can be one of the port name values returned in the list of all ports.

This command returns the details view of the port name *portname*. The contents of the list are similar to the contents of the list displayed by CCM (Main panel: **Management** -> **Ports** -> **Select port** -> **Operations menu** -> **details**,) plus the **maximum number of incoming calls**. The maximum number of incoming calls has a significance for token-ring ports (DLC Name = IBMTRNET) and APPN frame-relay ports (DLC name = FR). For other types of ports, the string `N/A` is displayed instead.

Command Example

port /details /name=e3ip2400

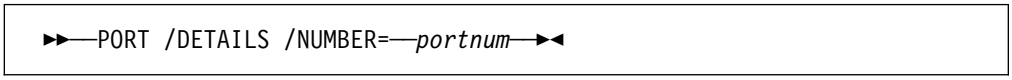
Command Result

```
Start of Output ¬ERS3NMVT| PORT /DETAILS /NAME=E3IP2400

PORT /DETAILS /NAME=E3IP2400 COMMAND EXECUTED
Port Name                 E3IP2400
DLC Name                  TR_IP
Port Type                 SAF
SSID                      7
Port Number               2400
Port address              X'400000662400AA0000000000000000000000000000000
                          000000000000000000000'
Max received BTU size     2052
Total connections         1250
Inbound connections       0
Outbound connections      0
Max no. of incoming calls N/A
Link station role         NEGOTIABLE
Transmit/Receive caps     TWA
Modem class               0
Target pacing count       3
Desired max send BTU size 2052
Adapter number            0
Transmit/Receive caps     IP
Service any               Yes
Effective capacity        15999900 bits per second
Cost per connect time     0
Cost per byte             0
Propagation delay         384.00 microseconds (lan)
HPR Support               No
User defined parameter 1  0
User defined parameter 2  0
```

```
|                     User defined parameter 3  0
|                     Security                  Nonsecure

|                     End of Output ¬ERS3NMVT| PORT /DETAILS /NAME=E3IP2400
```

Display the Details View for a Given Port Number

Syntax



portnum The *portnum* can be one of the port number values returned in the list of all ports.

This command returns the details view of the port number *portnum*. The contents of the list are similar to the contents of the list displayed by CCM (Main panel: **Management** -> **Ports** -> **Select port** -> **Operations menu** -> **details**,) plus the **maximum number of incoming calls**. The maximum number of incoming calls has a significance for token-ring ports (DLC Name = IBMTRNET) and APPN frame-relay ports (DLC name = FR). For other types of ports, the string `N/A` is displayed instead.

Command Example

port /details /number=2240

Command Result

```
Start of Output ¬ERS4NMVT| PORT /DETAILS /NUMBER=2240

PORT /DETAILS /NUMBER=2240 COMMAND EXECUTED
Port Name                 FR2240AP
DLC Name                  FR
Port Type                 SAF
SSID                      5
Port Number               2240
Port address              X'4C4943313200202020202020202020202020202020
                          20202020202020202020'
Max received BTU size     2106
Total connections         1000
Inbound connections       0
Outbound connections      0
Max no. of incoming calls 1000
Link station role         NEGOTIABLE
Transmit/Receive caps     TWA
Modem class               0
Target pacing count       3
Desired max send BTU size 2106
Adapter number            0
Transmit/Receive caps     IP
Service any               Yes
Effective capacity        1536000 bits per second
Cost per connect time     0
Cost per byte             0
Propagation delay         0.00 seconds (minimum)
HPR Support               Yes
HPR error recovery        PREFER NO ERP
User defined parameter 1  0
```

```
|                     User defined parameter 2  0
|                     User defined parameter 3  0
|                     Security                  Nonsecure
|                     Port Name                 FR2240IP
|                     DLC Name                  FR_IP
|                     Port Type                 SAF
|                     SSID                      5
|                     Port Number               2240
|                     Port address              X'4C4943313200202020202020202020202020202020
|                                               20202020202020202020'
|                     Max received BTU size     2106
|                     Total connections         1000
|                     Inbound connections       0
|                     Outbound connections      0
|                     Max no. of incoming calls N/A
|                     Link station role         NEGOTIABLE
|                     Transmit/Receive caps     TWA
|                     Modem class               0
|                     Target pacing count       3
|                     Desired max send BTU size 2106
|                     Adapter number            0
|                     Transmit/Receive caps     IP
|                     Service any               Yes
|                     Effective capacity        1536000 bits per second
|                     Cost per connect time     0
|                     Cost per byte             0
|                     Propagation delay         0.00 seconds (minimum)
|                     HPR Support               Yes
|                     HPR error recovery        PREFER NO ERP
|                     User defined parameter 1  0
|                     User defined parameter 2  0
|                     User defined parameter 3  0
|                     Security                  Nonsecure

|                     End of Output ¬ERS4NMVT| PORT /DETAILS /NUMBER=2240
```

Activate All Ports

Syntax

This command requests the activation of all ports. You can verify the completion of the command by issuing a **PORT /LIST** command.

Command Example

port /act /all

Command Result

```
Start of Output ¬BS8NMVT| PORT /ACT /ALL

PORT /ACT /ALL COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /ACT /ALL
```

Activate a Given Port by Name

Syntax

portname This can be one of the values returned in the list of ports of all ports.

This command requests the activation of the port name *portname*. If the port name *portname* is not found or omitted, the string `THE PORT NAME NOT SPECIFIED` is returned.

Command Example

1. A PORT /LIST command is issued to verify the port status.
2. A PORT /ACT command is issued to activate the NOT_ACTIVE port.
3. A PORT /LIST is issued again to verify that the port is now in the ACTIVATED state.

PORT /LIST /NUMBER=2574

```
Start of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574

PORT /LIST /NUMBER=2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574
```

PORT /ACT /NAME=APDL2574

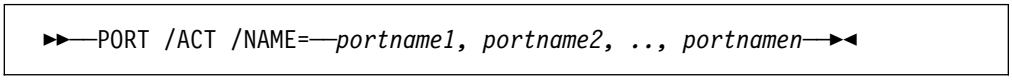
```
Start of Output ¬BS8NMVT| PORT /ACT /NAME=APDL2574

PORT /ACT /NAME=APDL2574 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /ACT /NAME=APDL2574
```

PORT /LIST /NAME=APDL2574

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL2574

PORT /LIST /NAME=APDL2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      ACTIVATED        SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL2574
```

Activate a List of Ports by Name

Syntax



portnamex This can be one of the values returned in the list of ports of all ports.

This command requests the activation of the list of ports with names *portname1, portname2,.., portnamen*. If one of the port names is not found or omitted, the string `PORT NAME portnamex UNKNOWN` is returned.

Command Example

1. A PORT /LIST command is issued to verify the status of a set of ports identified by wildcard name.
2. A PORT /ACT command is issued to activate a set of NOT_ACTIVE ports.
3. A PORT /LIST is issued again to verify that the just-activated ports have switched to the ACTIVATED state.

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2560    2560  0      NOT_ACTIVE       SDLC        LEASED
APDL2564    2564  0      NOT_ACTIVE       SDLC        LEASED
APDL2573    2573  0      NOT_ACTIVE       SDLC        LEASED
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
APDL2576    2576  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

PORT /ACT /NAME=APDL2560,APDL2574,APDL2576

```
Start of Output ¬BS8NMVT| PORT /ACT /NAME=APDL2560,APDL2574,APDL2576

PORT /ACT /NAME=APDL2560,APDL2574,APDL2576 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /ACT /NAME=APDL2560,APDL2574,APDL2576
```

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT|| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2560    2560  1      ACTIVATED        SDLC        LEASED
APDL2574    2574  3      ACTIVATED        SDLC        LEASED
APDL2576    2576  1      ACTIVATED        SDLC        LEASED
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2564    2564  0      NOT_ACTIVE       SDLC        LEASED
APDL2573    2573  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

Activate a Given Port by Number

Syntax

```
►►──PORT /ACT /NUMBER=──portnum──►◄
```

portnum This can be one of the values returned in the list of all ports.

This command requests the activation of the ports number *portnum*. If the port number *portnum* is not found or omitted, the string `PORT NUMBER portnum UNKNOWN` is returned.

Command Example

1. A PORT /LIST command is issued to verify the port status.
2. The PORT /ACT command is issued to activate the NOT_ACTIVE port.
3. A PORT /LIST is issued again to verify that the port is now in the ACTIVATED state.

PORT /LIST /NUMBER=2574

```
Start of Output ¬BS8NMVT|| PORT /LIST /NUMBER=2574

PORT /LIST /NUMBER=2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574
```

PORT /ACT /NUMBER=2574

```
Start of Output ¬BS8NMVT| PORT /ACT /NUMBER=2574

PORT /ACT /NUMBER=2574 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /ACT /NUMBER=2574
```

PORT /LIST /NAME=APDL2574

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL2574

PORT /LIST /NAME=APDL2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      ACTIVATED        SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL2574
```

Activate a List of Ports By Number

Syntax

```
►►──PORT /ACT /NUMBER=──portnum1, portnum2, .., portnumn──►◄
```

`portnumx` This can be one of the values returned in the list of ports of all ports.

This command requests the activation of the list of ports with the numbers *portnum1, portnum2,.., portnumn*. If one of the port numbers is not found or omitted, the string `PORT NUMBER portnumx UNKNOWN` is returned.

Command Example

1. A PORT /LIST command is issued to verify the status of a set of ports identified by a wildcard name.
2. A PORT /ACT command is issued to activate a set of NOT_ACTIVE ports using their port numbers.
3. A PORT /LIST is issued again to verify that the just-activated ports have switched to the ACTIVATED state.

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2560    2560  0      NOT_ACTIVE       SDLC        LEASED
APDL2564    2564  0      NOT_ACTIVE       SDLC        LEASED
APDL2573    2573  0      NOT_ACTIVE       SDLC        LEASED
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
APDL2576    2576  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

PORT /ACT /NUMBER=2560,2564,2573

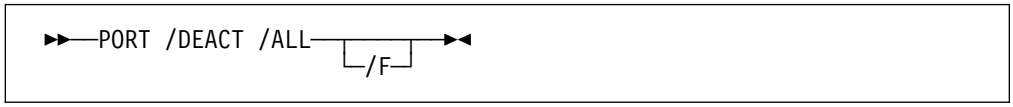
```
Start of Output ¬BS8NMVT| PORT /ACT /NUMBER=2560,2564,2573

PORT /ACT /NUMBER=2560,2564,2573 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /ACT /NUMBER=2560,2564,2573
```

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2560    2560  1      ACTIVATED        SDLC        LEASED
APDL2564    2564  1      ACTIVATED        SDLC        LEASED
APDL2573    2573  1      ACTIVATED        SDLC        LEASED
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
APDL2576    2576  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

Deactivate All Ports

Syntax



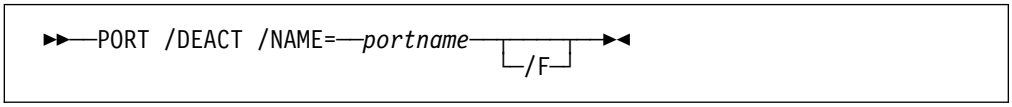
This command requests the deactivation of all ports. Parameter *F* can be added to submit the command in FORCE MODE.

Note:

This command breaks the link between the NNP and NetView. To reactivate this link, you must issue the command **PORT /ACT /ALL** from the SP.

Deactivate a Given Port by Name

Syntax



portname This can be one of the values returned in the list of ports of all ports.

This command requests the deactivation of the port named *portname*. If the port name *portname* is not found or omitted, the string `PORT NAME NOT SPECIFIED` is returned.

Note: Use the parameter *F* to submit the command in FORCE MODE.

Command Example

1. A PORT /LIST command is issued to verify that the port status is ACTIVATED.
2. The PORT /DEACT command is issued to deactivate the port.
3. A PORT /LIST is issued again to verify that the port is now in the NOT_ACTIVE state.

PORT /LIST /NUMBER=2574

```
Start of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574

PORT /LIST /NUMBER=2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      ACTIVATED        SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574
```

PORT /DEACT /NAME=APDL2574

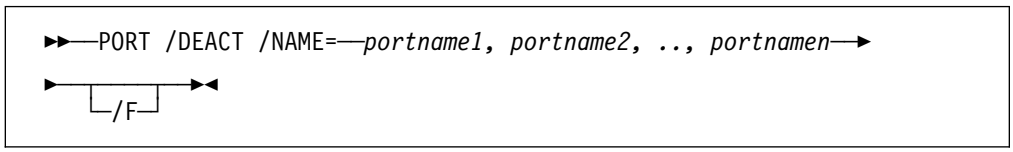
```
Start of Output ¬BS8NMVT| PORT /DEACT /NAME=APDL2574

PORT /DEACT /NAME=APDL2574 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /DEACT /NAME=APDL2574
```

PORT /LIST /NAME=APDL2574

```
Start of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574

PORT /LIST /NUMBER=2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574
```

Deactivate a List of Ports by Name

Syntax



portnamex This can be one of the values returned in the list of ports of all ports.

This command requests the deactivation of the list of ports with names *portname1, portname2,.., portnamen*. If one of the port name *portnamex* is not found or omitted, the string `PORT NAME portnamex UNKNOWN` is returned.

Note: Use the parameter *F* to submit the command in FORCE MODE.

Command Example

1. A PORT /LIST command is issued to verify the status of a set of ports identified by a wildcard name.
2. A PORT /ACT command is issued to deactivate a set of ACTIVATED ports.
3. A PORT /LIST is issued again to verify that the just-deactivated ports have switched to the NOT_ACTIVE state.

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name                          Type
APDL2560    2560  1      ACTIVATED        SDLC        LEASED
APDL2574    2574  3      ACTIVATED        SDLC        LEASED
APDL2576    2576  1      ACTIVATED        SDLC        LEASED
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2564    2564  0      NOT_ACTIVE       SDLC        LEASED
APDL2573    2573  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

PORT /DEACT /NAME=APDL2560,APDL2574,APDL2576

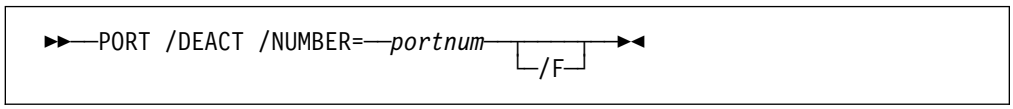
```
Start of Output ¬BS8NMVT| PORT /DEACT /NAME=APDL2560,APDL2574,APDL2576

PORT /DEACT /NAME=APDL2560,APDL2574,APDL2576 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /DEACT /NAME=APDL2560,APDL2574,APDL2576
```

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2560    2560  0      NOT_ACTIVE       SDLC        LEASED
APDL2564    2564  0      NOT_ACTIVE       SDLC        LEASED
APDL2573    2573  0      NOT_ACTIVE       SDLC        LEASED
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
APDL2576    2576  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

Deactivate a Given Port by Number

Syntax



portnum This can be one of the values returned in the list of ports of all ports.

This command requests the deactivation of the port number *portnum*. If the port number *portnum* is not found or omitted, the string `PORT NUMBER portnum UNKNOWN` is returned.

Note: The parameter *F* is added to submit the command in FORCE MODE.

Command Example

1. A PORT /LIST command is issued to verify that the port state is ACTIVATED.
2. The PORT /DEACT command is issued to deactivate the port.
3. A PORT /LIST command is issued again to verify that the port state has switched to the NOT_ACTIVE state.

PORT /LIST /NUMBER=2574

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL2574

PORT /LIST /NAME=APDL2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      ACTIVATED        SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL2574
```

PORT /DEACT /NUMBER=2574

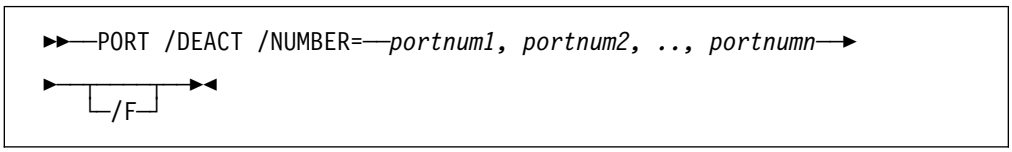
```
Start of Output ¬BS8NMVT| PORT /DEACT /NUMBER=2574

PORT /DEACT /NUMBER=2574 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /DEACT /NUMBER=2574
```

PORT /LIST /NAME=APDL2574

```
Start of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574

PORT /LIST /NUMBER=2574 COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 1

End of Output ¬BS8NMVT| PORT /LIST /NUMBER=2574
```

Deactivate a List of Ports by Number

Syntax



portnumx This can be one of the values returned in the list of all ports.

This command requests the deactivation of the list of ports with number *portnum1, portnum2,.., portnumn*. If one of the port number *portnumx* is not found or omitted, the string `PORT NUMBER portnumx UNKNOWN` is returned.

Note: Use the parameter *F* to submit the command in FORCE MODE.

Command Example

1. A PORT /LIST command is issued to verify the status of a set of ports identified by a wildcard name.
2. A PORT /DEACT command is issued to deactivate a set of ports with the ACTIVATED state, using their port numbers.
3. A PORT /LIST is issued again to verify that the just-deactivated ports have switched to the NOT_ACTIVE state.

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2560    2560  1      ACTIVATED        SDLC        LEASED
APDL2564    2564  1      ACTIVATED        SDLC        LEASED
APDL2573    2573  1      ACTIVATED        SDLC        LEASED
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
APDL2576    2576  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

PORT /DEACT /NUMBER=2560,2564,2573

```
Start of Output ¬BS8NMVT| PORT /DEACT /NUMBER=2560,2564,2573

PORT /DEACT /NUMBER=2560,2564,2573 COMMAND EXECUTED

End of Output ¬BS8NMVT| PORT /DEACT /NUMBER=2560,2564,2573
```

PORT /LIST /NAME=APDL*

```
Start of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*

PORT /LIST /NAME=APDL* COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
APDL2588    2588  10     ACTIVATED        SDLC        LEASED
APDL2560    2560  0      NOT_ACTIVE       SDLC        LEASED
APDL2564    2564  0      NOT_ACTIVE       SDLC        LEASED
APDL2573    2573  0      NOT_ACTIVE       SDLC        LEASED
APDL2574    2574  0      NOT_ACTIVE       SDLC        LEASED
APDL2576    2576  0      NOT_ACTIVE       SDLC        LEASED
APDL2580    2580  0      NOT_ACTIVE       SDLC        LEASED
Nb items of whole list = 7

End of Output ¬BS8NMVT| PORT /LIST /NAME=APDL*
```

List All Stations

Syntax

This command returns the list of all stations similar to the CCM station. If the list output exceeds a certain size, it will be displayed page per page and will be assigned a one-digit list ID.

Command Example

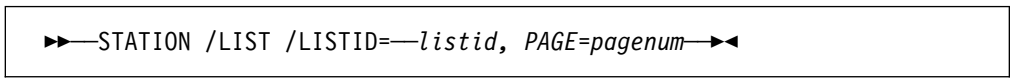
Station /List

Command Result

```
Start of Output ¬BS4NMVT| STATION /LIST

LINK NAME #SE   TG  PARTNER NAME        TYPE STATE        ADDRESS
SI2381     0    0                     LEN CONTACTED  323810
TO2720     0    0                     LEN CONALS PND 40000050272008
S2385001   0    0                     END XID PND    0000
S2376001   0    0                     END XID PND    0000
S2370001   0    0                     END XID PND    0000
S2369001   0    0                     END XID PND    0000
S2182001   0    0                     END XID PND    0000
S2181001   0    0                     END XID PND    0000
S2368001   0    0                     END XID PND    0000
S2187001   0    0                     END XID PND    0000
S2180001   0    0                     END CONALS PND 0000
S2379001   0    0                     END XID PND    0000
LS22405I   0    0                     END XID PND    00050807080701
S2374001   0    0                     END XID PND    0000
S2186001   0    0                     END XID PND    0000
S2185001   0    0                     END XID PND    0000
LS2240A3   0    0                     END XID PND    00030807080701
LS2240A2   0    0                     END XID PND    00020807080701
ZYX00004   0    0                     LEN CONTACTED  01000807080701
ZYX00001   0    0                     LEN CONTACTED  01000807080701
@@7        0    21  SYSTSTAP.SR3      NET CONTACTED  40000030214408
SA2381     0    25  SYSTSTAP.SR3      NET CONTACTED  323810
TOSR32     0    24  SYSTSTAP.SR3      NET CONTACTED  40000030214408
TOMAE      0    21  SYSTSTAP.MAERS6   NET CONTACTED  40000050249708
FRSR3      0    0                     LRN NOT ACTIVE 00200000010864
P3970012   0    0                     LRN NOT ACTIVE 11001400
P3970011   0    0                     LRN NOT ACTIVE 11001400
P3970010   0    0                     LRN NOT ACTIVE 0010
LISTID = 8, PAGE = 1 OF 8
Date of the list = 06-20-2000 11:36:11

End of Output ¬BS4NMVT| STATION /LIST
```

Retrieve a Page of Stations List with Listid

Syntax



Use this command to retrieve the contents of a page of a stations list that spans multiple pages and, therefore, is identified by a *listid*. This multiple-page stations list can be the result of a **STATION /LIST** command or of a **STATION /LIST /NAME** command.

The NetView RUNCMD repetition is under the responsibility of the NetView operator or the automation program.

Command Example

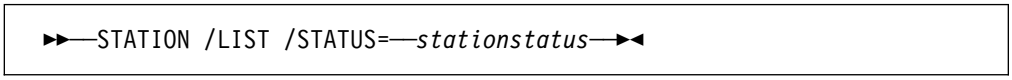
station /list /listid=8, page=8

Command Result

```
Start of Output ¬BS4NMVT| STATION /LIST /LISTID=8

LINK NAME #SE   TG  PARTNER NAME        TYPE STATE        ADDRESS
P3970009   0    0                     LRN NOT ACTIVE 0009
P3970008   0    0                     LRN NOT ACTIVE 0008
P3970007   0    0                     LRN NOT ACTIVE 0007
P3970006   0    0                     LRN NOT ACTIVE 0006
P3970005   0    0                     LRN NOT ACTIVE 0005
P3970004   0    0                     LRN NOT ACTIVE 0004
P3970003   0    0                     LRN NOT ACTIVE 0003
P3970002   0    0                     LRN NOT ACTIVE 0002
P3970001   0    0                     LRN NOT ACTIVE 0001
ST239802   0    0                     LRN NOT ACTIVE 00110000010464
ST239801   0    0                     LRN NOT ACTIVE 00100000010464
SPMOSSE    0    0                     LRN NOT ACTIVE 40000050111104
LISTID = 8, PAGE = 8 OF 8
Date of the list = 06-20-2000 11:36:48

End of Output ¬BS4NMVT| STATION /LIST /LISTID=8
```

List Stations by Status

Syntax



stationstatus Possible values are:

not_active
conals pnd
xid_pnd
contactpnd
contacted
disc_pnd

This command returns the list of the stations with the status *stationstatus*. If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

station /list /status=not_active

Command Result

```
Start of Output ¬BS4NMVT| STATION /LIST /STATUS=NOT_ACTIVE

LINK NAME #SE   TG  PARTNER NAME        TYPE STATE        ADDRESS
FRSR3      0    0                     LRN NOT ACTIVE 00200000010864
P3970001   0    0                     LRN NOT ACTIVE 0001
P3970002   0    0                     LRN NOT ACTIVE 0002
ST239802   0    0                     LRN NOT ACTIVE 00110000010464
P3970003   0    0                     LRN NOT ACTIVE 0003
P3970004   0    0                     LRN NOT ACTIVE 0004
P3970005   0    0                     LRN NOT ACTIVE 0005
P3970006   0    0                     LRN NOT ACTIVE 0006
P3970007   0    0                     LRN NOT ACTIVE 0007
P3970008   0    0                     LRN NOT ACTIVE 0008
P3970009   0    0                     LRN NOT ACTIVE 0009
P3970010   0    0                     LRN NOT ACTIVE 0010
P3970011   0    0                     LRN NOT ACTIVE 11001400
P3970012   0    0                     LRN NOT ACTIVE 11001400
S2180001   0    0                     LRN NOT ACTIVE 0000
S2379001   0    0                     LRN NOT ACTIVE 0000
SPMOSSE    0    0                     LRN NOT ACTIVE 40000050111104
ST239801   0    0                     LRN NOT ACTIVE 00100000010464

End of Output ¬BS4NMVT| STATION /LIST /STATUS=NOT_ACTIVE
```

List Stations by Wildcard Name

Syntax

```
►►──STATION /LIST /NAME=──wildcard──►◄
```

This command returns the list of the stations matching the link name *wildcard*. The string entered for *wildcard* must be one of the following:

- * (this is equivalent to a **STATION LIST** command)
- *xyz*
- xyz*
- *xyz
- xyz

where *xyz* is any character.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

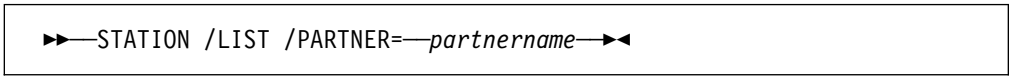
station /list /name=s*

Command Result

```
Start of Output ¬BS4NMVT| STATION /LIST /NAME=S*

LINK NAME #SE   TG  PARTNER NAME        TYPE STATE        ADDRESS
SI2381     0    0                     LEN CONTACTED 323810
S2385001   0    0                     END XID PND    0000
S2376001   0    0                     END XID PND    0000
S2370001   0    0                     END XID PND    0000
S2369001   0    0                     END XID PND    0000
S2182001   0    0                     END XID PND    0000
S2181001   0    0                     END XID PND    0000
S2368001   0    0                     END XID PND    0000
S2187001   0    0                     END XID PND    0000
S2180001   0    0                     END CONALS PND 0000
S2379001   0    0                     END XID PND    0000
S2374001   0    0                     END XID PND    0000
S2186001   0    0                     END XID PND    0000
S2185001   0    0                     END XID PND    0000
SA2381     0    25  SYSTSTAP.SR3      NET CONTACTED  323810

End of Output ¬BS4NMVT| STATION /LIST /NAME=S*
```

List Stations by Partner Name

Syntax



This command returns the list of the stations with the partner name *partnername*. If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

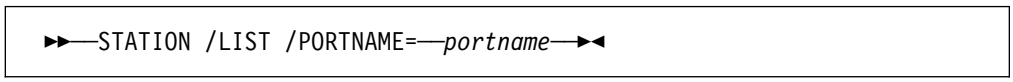
station /list /partnername=syststap.sr3

Command Result

```
Start of Output ¬BS4NMVT| STATION /LIST /PARTNERNAME=SYSTSTAP.SR3

LINK NAME #SE   TG  PARTNER NAME        TYPE STATE        ADDRESS
@@7        0    21  SYSTSTAP.SR3      NET CONTACTED  40000030214408
SA2381     0    25  SYSTSTAP.SR3      NET CONTACTED  323810
TOSR32     0    24  SYSTSTAP.SR3      NET CONTACTED  40000030214408

End of Output ¬BS4NMVT| STATION /LIST /PARTNERNAME=SYSTSTAP.SR3
```

List Stations by Port Name

Syntax



This command returns the list of the stations defined with the port name *portname*. If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

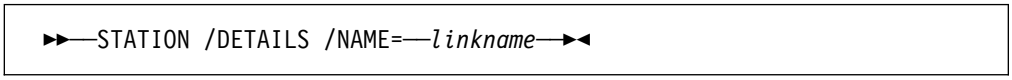
station /list /portname=SA2381

Command Result

```
Start of Output ¬BS4NMVT| STATION /LIST /PORTNAME=SA2381

LINK NAME #SE   TG  PARTNER NAME        TYPE STATE        ADDRESS
SA2381     0    25                    NET CONTACTED  323810

End of Output ¬BS4NMVT| STATION /LIST /PORTNAME=SA2381
```

Display the Details View for a Given Station Name

Syntax



linkname This can be one of the station name values returned in the list of stations.

This command returns the details view of the station name *linkname*. If the station *linkname* is not found or is omitted, the string `THE STATION linkname IS UNKNOWN` is returned.

Command Example

station /details /name=st239801

Command Result

```
Start of Output ¬BS4NMVT| STATION /DETAILS /NAME=ST239801

Link Name                       ST239801
Adjacent node CP name
Adjacent node type              Learn
DLC Name                        FR
Port Name                       FR2398
CP-CP session support           Yes
Preferred NN server             No
Auto-activate link              Yes
Transmission group number       0
Limited resource               NO
Solicit SSCP                    No
Init self                       No
BIND support                    Yes
Link station role               Negotiable
Line type                       SAF
HPR Support                     No
Effective capacity              19200 bits per second
Cost per connect time           0
Cost per byte                   0
Propagation delay               0.00 seconds (minimum)
User defined parameter 1        0
User defined parameter 2        0
User defined parameter 3        0
Security                        Nonsecure

End of Output ¬BS4NMVT| STATION /DETAILS /NAME=ST239801
```

Activate All Stations

Syntax

This command requests the activation of all stations.

You can verify the completion of the command by issuing a **STATION /LIST** command.

Command Example

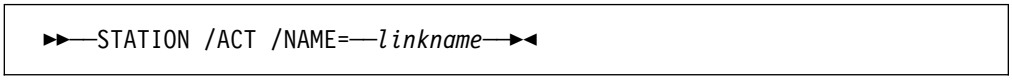
station /act /all

Command Result

```
Start of Output ¬BS8NMVT| STATION /ACT /ALL

STATION /ACT /ALL COMMAND EXECUTED

End of Output ¬BS8NMVT| STATION /ACT /ALL
```

Activate a Given Station by Name

Syntax



linkname This can be one of the station name values returned in the list of stations.

This command requests the activation of the station *linkname*.

If *linkname* is not found, the string `STATION NAME linkname IS UNKNOWN` is returned.

If *linkname* is omitted, the string `STATION NAME NOT SPECIFIED` is returned.

Command Example

1. A STATION /LIST is issued to verify that a station is in the NOT_ACTIVE state.
2. A STATION /ACT is issued towards this station to activate it.
3. A STATION /LIST is issued again to verify that the station has switched to the CONTACTED state.

STATION /LIST /NAME=ST2144T

```
Start of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
ST2144T    0    0                     LRN NOT_ACTIVE 40000079214408
Nb items of whole list = 1

End of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T
```

STATION /ACT /NAME=ST2144T

```
Start of Output ¬BS8NMVT| STATION /ACT /NAME=ST2144T

STATION /ACT /NAME=ST2144T COMMAND EXECUTED

End of Output ¬BS8NMVT| STATION /ACT /NAME=ST2144T
```

STATION /LIST /NAME=ST2144T

```
Start of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
ST2144T    0    13  SYSTSTAP.BS12     NET CONTACTED  40000079214408
Nb items of whole list = 1

End of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T
```

Activate a List of Stations by Name

Syntax

```
►►—STATION /ACT /NAME=—linkname1, linkname2, .., linknamen—►◄
```

linknamex This can be one of the station name value returned in the list of stations.

This command requests the activation of the list of stations with the names *linkname1, linkname2, .., linknamen*.

If a linkname is not found, the string `STATION linknamex IS UNKNOWN` is returned.

Command Example

1. A STATION /LIST is issued to list stations in the NOT_ACTIVE state.
2. A STATION /ACT is issued towards a list of stations to activate them.
3. A STATION /LIST is issued again to verify that the stations have switched to the CONTACTED state.

STATION /LIST /STATUS=NOT_ACTIVE

```
Start of Output ¬BS8NMVT| STATION /LIST /STATUS=NOT_ACTIVE

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
PU0F       0    0                     LRN NOT_ACTIVE 0000
PU10       0    0                     LRN NOT_ACTIVE 0000
PU11       0    0                     LRN NOT_ACTIVE 0000
.
.
S219006    0    0                     LRN NOT_ACTIVE 0000
TOPS10     0    0                     LRN NOT_ACTIVE 00210000010464
Nb items of whole list = 50

End of Output ¬BS8NMVT| STATION /LIST /STATUS=NOT_ACTIVE
```

STATION /ACT /NAME=PU0F,PU10,PU11

```
Start of Output ¬BS8NMVT| STATION /ACT /NAME=PU0F,PU10,PU11

STATION /ACT /NAME=PU0F,PU10,PU11 COMMAND EXECUTED

End of Output ¬BS8NMVT| STATION /ACT /NAME=PU0F,PU10,PU11
```

STATION /LIST /NAME=PU*

```
Start of Output ¬BS8NMVT| STATION /LIST /NAME=PU*

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
PU0F       0    13  SYSTSTAP.SU4      SET CONTACTED    0000
PU10       0    13  SYSTSTAP.BS12     SET CONTACTED    0000
PU0F       0    13  SYSTSTAP.BS4      SET CONTACTED    0000
Nb items of whole list = 3

End of Output ¬BS8NMVT| STATION /LIST /NAME=PU*
```

Deactivate All Stations

Syntax

This command requests the deactivation of all stations.

You can verify the completion of the command by issuing a **STATION /LIST** command

Command Example

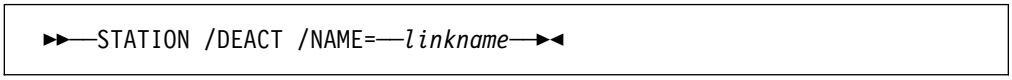
station /deact /all

Command Result

```
Start of Output ¬BS8NMVT| STATION /DEACT /ALL

STATION /DEACT /ALL COMMAND EXECUTED

End of Output ¬BS8NMVT| STATION /DEACT /ALL
```

Deactivate a Given Station by Name

Syntax



linkname This can be one of the station name values returned in the list of stations.

This command requests the deactivation of the station name *linkname*.

If *linkname* is not found, the string `STATION linkname IS UNKNOWN` is returned.

If *linkname* is omitted, the string `STATION NAME NOT SPECIFIED` is returned.

Command Example

1. A STATION /LIST is issued to verify that a station is in the CONTACTED state.
2. A STATION /DEACT is issued towards this station to deactivate it.
3. A STATION /LIST is issued again to verify that the station has switched to the NOT_ACTIVE state.

STATION /LIST /NAME=ST2144T

```
Start of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
ST2144T    0    13  SYSTSTAP.BS12     NET CONTACTED  40000079214408
Nb items of whole list = 1

End of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T
```

STATION /DEACT /NAME=ST2144T

```
Start of Output ¬BS8NMVT| STATION /DEACT /NAME=ST2144T

STATION /DEACT /NAME=ST2144T COMMAND EXECUTED

End of Output ¬BS8NMVT| STATION /DEACT /NAME=ST2144T
```

STATION /LIST /NAME=ST2144T

```
Start of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
ST2144T    0    0                     LRN NOT_ACTIVE 40000079214408
Nb items of whole list = 1

End of Output ¬BS8NMVT| STATION /LIST /NAME=ST2144T
```

Deactivate a List of Stations by Name

Syntax

```
►►—STATION /DEACT /NAME=—linkname1, linkname2, .., linknamen—►◄
```

linknamex This can be one of the station name value returned in the list of stations.

This command requests the deactivation of the list of stations with the names *linkname1, linkname2, .., linknamen*.

If *linknamex* is not found, the string `STATION linknamex IS UNKNOWN` is returned.

Command Example

1. A STATION /LIST is issued to list stations in the CONTACTED state.
2. A STATION /DEACT is issued towards this list of stations to activate them.
3. A STATION /LIST is issued again to verify that the stations have switched to the NOT_ACTIVE state.

STATION /LIST /STATUS=NOT_ACTIVE

```
Start of Output ¬BS8NMVT| STATION /LIST /NAME=PU*

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
PU0F       0    13  SYSTSTAP.SU4      SET CONTACTED    0000
PU10       0    13  SYSTSTAP.BS12     SET CONTACTED    0000
PU0F       0    13  SYSTSTAP.BS4      SET CONTACTED    0000
Nb items of whole list = 3

End of Output ¬BS8NMVT| STATION /LIST /NAME=PU*
```

STATION /DEACT /NAME=PU0F,PU10,PU11

```
Start of Output ¬BS8NMVT| STATION /DEACT /NAME=PU0F,PU10,PU11

STATION /DEACT /NAME=PU0F,PU10,PU11 COMMAND EXECUTED

End of Output ¬BS8NMVT| STATION /DEACT /NAME=PU0F,PU10,PU11
```

STATION /LIST /NAME=PU*

```
Start of Output ¬BS8NMVT| STATION /LIST /NAME=PU*

LINK NAME #SE   TG  PARTNER NAME      TYPE STATE        ADDRESS
PU0F       0    0                    LRN NOT_ACTIVE 0000
PU10       0    0                    LRN NOT_ACTIVE 0000
PU11       0    0                    LRN NOT_ACTIVE 0000
Nb items of whole list = 3

End of Output ¬BS8NMVT| STATION /LIST /NAME=PU*
```

List All Sessions

Syntax

This command returns the list of all the CP-CP and LU-LU sessions currently routed through this network node.

If no session is found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

session /list

Command Result

```
Start of Output ¬ERS5NMVT| SESSION /LIST

LU ALIAS  MODE      FQ PARTNER NAME and ALIAS      LINK         SPW  RPW RU Size  SessionId
ERS5      CPSVCMG    SYSTSTAP.BIGNETR1  @I952214    08AA58F0TCID 10   8     512    X'E48784042E4F8645'
ERS5      CPSVCMG    SYSTSTAP.BIGNETR1  @I952214    08AA58F0TCID 10   8     512    X'FFAFF05D7DB1835D'
ERS5      CPSVCMG    SYSTSTAP.BIGNNB8A  @I959582    @@4          10   50    512    X'E40BA52D3B3971B9'
ERS5      CPSVCMG    SYSTSTAP.BIGNNB8A  @I959582    @@4          10   8     512    X'FFAFF05D7DB0DDD4'
ERS5      CPSVCMG    SYSTSTAP.BIGNNB8B  @I959576    @@3          10   50    512    X'E40BA52C3B3971C7'
ERS5      CPSVCMG    SYSTSTAP.BIGNNB8B  @I959576    @@3          10   8     512    X'FFAFF05D7DB0DDD3'
ERS5      CPSVCMG    SYSTSTAP.BIGNNB8C  @I959586    @@5          10   50    512    X'E40BA52B3B3971E2'
ERS5      CPSVCMG    SYSTSTAP.BIGNNB8C  @I959586    @@5          10   8     512    X'FFAFF05D7DB0DDD5'
.
.
.
ERS5      CPSVRMGR   SYSTSTAP.ICN23     @I959506    08B7D520TCID 10   32    512    X'C08F3086FD4C9A2F'
ERS5      SNASVCMG   SYSTSTAP.NNSIS185  @I962791    08AB5258TCID 10   8     512    X'F06BB92838A19250'
ERS5      CPSVCMG    SYSTSTAP.NNSIS185  @I962791    FA04         10   50    512    X'FD6BB92838A1924F'
ERS5      CPSVCMG    SYSTSTAP.NNSIS185  @I962791    FA04         10   8     512    X'FFAFF05D7DB0F306'
ERS5      CPSVRMGR   SYSTSTAP.NNSIS185  @I962791    08AB5258TCID 10   50    512    X'FD6BB92838A19259'
ERS5      CPSVRMGR   SYSTSTAP.NNSIS185  @I962791    08AB5258TCID 10   1     512    X'FFAFF05D7DB0F32B'
ERS5      CPSVCMG    SYSTSTAP.SU4       @I960909    08BA4648TCID 10   50    512    X'EA33D3657C9A6C47'
ERS5      CPSVCMG    SYSTSTAP.SU4       @I960909    08BA4648TCID 10   8     512    X'FFAFF05D7DB1B190'
Nb items of whole list = 60

End of Output ¬ERS5NMVT| SESSION /LIST
```

Note: The output list items are sorted in alphabetical order using the PARTNER NAME, partner ALIAS, and SessionID fields.

Summary List of Sessions

Syntax

This command returns a summary list of sessions consisting of one line per LU alias indicating the number of sessions for that LU alias. If you need to obtain a detailed view of the sessions for a particular LU alias, use the **SESSION /LIST /LUALIAS** command (see page 5-47).

Command Example

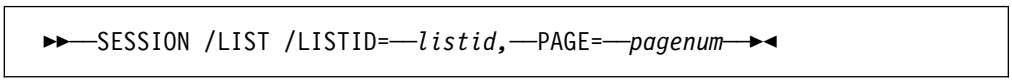
session /summary

Command Result

```
Start of Output ¬BS4NMVT| SESSION /SUMMARY

LU ALIAS  SESSION COUNT
BS5       2
BS6       2

End of Output ¬BS4NMVT| SESSION /SUMMARY
```

Retrieve a Page of Sessions List with Listid

Syntax



Use this command to retrieve the contents of a page of a sessions list that spans multiple pages and, therefore, is identified by a *listid*. This multiple-page sessions list can be the result of a **SESSION /LIST** command.

Command Example

This SESSION /LIST command output spans over 5 pages, and a list identification of "5" has been assigned to the command output. A SESSION /LIST /LISTID=3, PAGE=5 is issued to display the last page of the session list output.

Command Result

```
SESSION /LIST

Start of Output ¬ERS5NMVT| SESSION /LIST

LU ALIAS  MODE      FQ PARTNER NAME and ALIAS      LINK         SPW  RPW RU Size  SessionId
ERS5      CPSVCMG   SYSTSTAP.BIGNETR1  @I952214    08AA58F0TCID 10   8     512    X'FFAFF05D7DB1835D'
ERS5      CPSVCMG   SYSTSTAP.BIGNETR1  @I952214    08AA58F0TCID 10   8     512    X'E48784042E4F8645'
ERS5      CPSVCMG   SYSTSTAP.BIGNNB8A  @I959582    @@4          10   50    512    X'E40BA52D3B3971B9'
ERS5      CPSVCMG   SYSTSTAP.BIGNNB8A  @I959582    @@4          10   8     512    X'FFAFF05D7DB0DDD4'
ERS5      CPSVCMG   SYSTSTAP.BIGNNB8B  @I959576    @@3          10   8     512    X'FFAFF05D7DB0DDD3'
ERS5      CPSVCMG   SYSTSTAP.BIGNNB8B  @I959576    @@3          10   50    512    X'E40BA52C3B3971C7'
.
.
.
ERS5      CPSVCMG   SYSTSTAP.EN236901  @I963201    P3690001     10   50    512    X'C5EBA10C734548C0'
ERS5      CPSVCMG   SYSTSTAP.EN236901  @I963201    P3690001     10   8     512    X'FFAFF05D7DB0DDF8'
ERS5      CPSVCMG   SYSTSTAP.EN236903  @I963196    P3690003     10   50    512    X'C5EBA10A734548BD'
ERS5      CPSVCMG   SYSTSTAP.EN236903  @I963196    P3690003     10   8     512    X'FFAFF05D7DB0DDF6'
ERS5      CPSVCMG   SYSTSTAP.EN236905  @I963176    S3690020     10   50    512    X'C5EBA108734548B7'
ERS5      CPSVCMG   SYSTSTAP.EN236905  @I963176    S3690020     10   8     512    X'FFAFF05D7DB0DDF2'
ERS5      CPSVCMG   SYSTSTAP.EN236907  @I963180    S3690018     10   50    512    X'C5EBA106734548B6'
ERS5      CPSVCMG   SYSTSTAP.EN236907  @I963180    S3690018     10   8     512    X'FFAFF05D7DB0DDF3'
LISTID = 3 ,PAGE = 1 OF 5
Nb items of whole list = 1005

End of Output ¬ERS5NMVT| SESSION /LIST
```

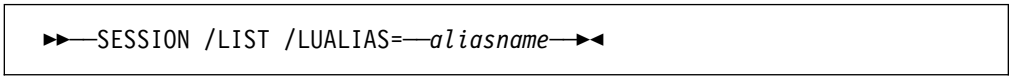
session /list /listid=3,page=5

```
| Start of Output ¬ERS5NMVT| SESSION /LIST /LISTID=3,PAGE=5

| LU ALIAS  MODE      FQ PARTNER NAME and ALIAS      LINK         SPW  RPW RU Size  SessionId
| ERS5     CPSVCMG    SYSTSTAP.ERS5NMVT  @I959493    SPMOSSE      10   11    512    X'E79F300BE46C59BA'
| ERS5     CPSVCMG    SYSTSTAP.ERS5NMVT  @I959493    SPMOSSE      10   8     512    X'FFAFF05D7DB0DDC9'
| ERS5     CPSVCMG    SYSTSTAP.ERS7      @I953283    08AAD600TCID 10   9     512    X'FFAFE93D770154F4'
| ERS5     CPSVCMG    SYSTSTAP.ERS7      @I953283    08AAD600TCID 10   8     512    X'FFAFF05D7DB35984'
| ERS5     CPSVCMG    SYSTSTAP.ICN13     @I959498    APF909       10   50    512    X'C08F341601B97C01'
| ERS5     CPSVCMG    SYSTSTAP.ICN13     @I959498    APF909       10   8     512    X'FFAFF05D7DB1C17D'
| ERS5     SNASVCMG   SYSTSTAP.ICN23     @I959506    08B7D9D0TCID 10   9     512    X'C08F3086FD4C9A37'
| ERS5     CPSVRMGR   SYSTSTAP.ICN23     @I959506    08AA6BB0TCID 10   1     512    X'FFAFF05D7DB36104'
| ERS5     CPSVRMGR   SYSTSTAP.ICN23     @I959506    08B7D520TCID 10   32    512    X'C08F3086FD4C9A2F'
| ERS5     SNASVCMG   SYSTSTAP.NNSIS185  @I962791    08AB5258TCID 10   8     512    X'F06BB92838A19250'
| ERS5     CPSVCMG    SYSTSTAP.NNSIS185  @I962791    FA04         10   50    512    X'FD6BB92838A1924F'
| ERS5     CPSVCMG    SYSTSTAP.NNSIS185  @I962791    FA04         10   8     512    X'FFAFF05D7DB0F306'
| ERS5     CPSVRMGR   SYSTSTAP.NNSIS185  @I962791    08AB5258TCID 10   50    512    X'FD6BB92838A19259'
| ERS5     CPSVRMGR   SYSTSTAP.NNSIS185  @I962791    08AB5258TCID 10   1     512    X'FFAFF05D7DB0F32B'
| ERS5     CPSVCMG    SYSTSTAP.SU4       @I960909    08BA4648TCID 10   50    512    X'EA33D3657C9A6C47'
| ERS5     CPSVCMG    SYSTSTAP.SU4       @I960909    08BA4648TCID 10   8     512    X'FFAFF05D7DB1B190'
| LISTID = 3 ,PAGE = 5 OF 5
| Nb items of whole list = 1005

| End of Output ¬ERS5NMVT| SESSION /LIST /LISTID=3,PAGE=5
```

| **Note:** The output list items are sorted in alphabetical order using the PARTNER
| NAME, partner ALIAS, and SessionID fields.

List Sessions by LU Alias Name

Syntax



This command returns the list of all sessions with the LU alias name *lualias*.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

session /list /lualias=BS5

Command Result

```
Start of Output ¬BS4NMVT| SESSION /LIST /LUALIAS=BS5


LU ALIAS  MODE      FQ PARTNER NAME and ALIAS      LINK     SPW  RPW RU Size  SessionId
BS5       CPSVCMG   SYSTST.BS6         @I070422    0A1A1AD8 2    16    512    X'D493172E7FEC5A2E'
BS5       CPSVCMG   SYSTST.BS6         @I070422    0A1A3E40 2    8     512    X'D49FA72E64936455'
BS5       CPSVRMGR  SYSTST.CDRM11      @I070490    0A35E090 2    1     512    X'D49FA72E64937AC3'
BS5       CPSVRMGR  SYSTST.CDRM11      @I070490    0A35E090 2    42    512    X'EA5F3DE7945AF875'

End of Output ¬BS4NMVT| SESSION /LIST /LUALIAS=BS5
```

| **Note:** The output list items are sorted in alphabetical order using the PARTNER
| NAME, partner ALIAS, and SessionID fields.

List Sessions by Mode Name

Syntax

```
►►──SESSION /LIST /MODE=──modename──►◄
```

This command returns the list of all sessions with the mode name *modename*.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

session /list /mode=CPSVCMG

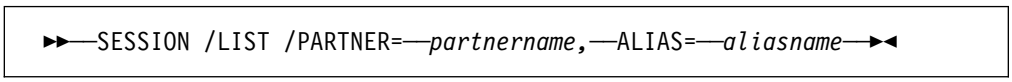
Command Result

```
| Start of Output ¬ERS4NMVT| SESSION /LIST /MODE=CPSVMG

| LU ALIAS  MODE      FQ PARTNER NAME and ALIAS      LINK     SPW  RPW RU Size  SessionId
| ERS4     CPSVCMG    SYSTSSE.NNSIS174   àI811399    DE01         10   50    512    X'FD5B9A7339AAD0D3'
| ERS4     CPSVCMG    SYSTSSE.NNSIS174   @I811399    DE01         10   8     512    X'FFAFF3ED8116AE3A'
| ERS4     CPSVCMG    SYSTSTAP.BEXDCS2   @I803522    09F962E8TCID 10   9     512    X'D55364CC53337AF3''
| ERS4     CPSVCMG    SYSTSTAP.BEXDCS2   @I803522    09F962E8TCID 10   8     512    X'FFAFF3ED8116B25C''
| ERS4     CPSVCMG    SYSTSTAP.ENSIS184  @I811300    DE03         10   29    512    X'FD67EE19C219EE8D'
| ERS4     CPSVCMG    SYSTSTAP.ENSIS184  @I811300    DE03         10   8     512    X'FFAFF3ED8116B152'
| ERS4     CPSVCMG    SYSTSTAP.ERS4NMVT  @I803400    SPMOSSE      10   8     512    X'DDC30D80DDDA57D5'
| ERS4     CPSVCMG    SYSTSTAP.ERS4NMVT  @I803400    SPMOSSE      10   8     512    X'FFAFF3ED8116AE1A'
| ERS4     CPSVCMG    SYSTSTAP.ERS5      @I803221    09EB3080TCID 10   50    512    X'FFAFF05D7DD4E796'
| ERS4     CPSVCMG    SYSTSTAP.ERS5      @I803221    09EBAC68TCID 10   8     512    X'FFAFF3ED8116AE13'
| ERS4     CPSVCMG    SYSTSTAP.ICN17     @I803385    FRTO2333     10   50    512    X'D08F341606807932'
| ERS4     CPSVCMG    SYSTSTAP.ICN17     @I803385    FRTO2333     10   8     512    X'FFAFF3ED8116AE16'
| ERS4     CPSVCMG    SYSTSTAP.ICN23     @I809621    CE0A         10   50    512    X'C08F3086FF21F1D2'
| ERS4     CPSVCMG    SYSTSTAP.ICN23     @I809621    CE0A         10   8     512    X'FFAFF3ED8116AE2F'
| ERS4     CPSVCMG    SYSTSTAP.SU4       @I803225    09EB8348TCID 10   50    512    X'EA33D3657C9ACF05'
| ERS4     CPSVCMG    SYSTSTAP.SU4       @I803225    09EBB118TCID 10   8     512    X'FFAFF3ED8116AE14'
| Nb items of whole list = 16

| End of Output ¬ERS4NMVT| SESSION /LIST /MODE=CPSVMG
```

| **Note:** The output list items are sorted in alphabetical order using the PARTNER
| NAME, partner ALIAS, and SessionID fields.

List Sessions by Partners Name and Alias Name

Syntax



This command returns the list of all sessions with the partner name *partner* and the alias name *aliasname*.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

session /list /partner=SYSTST.BS6, alias=@I070422

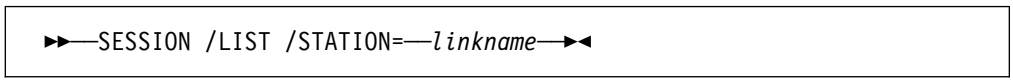
Command Result

```
Start of Output ¬BS4NMVT| SESSION /LIST /PARTNER=SYSTST.BS6,ALIAS=@I070422

  LU ALIAS  MODE      FQ PARTNER NAME and ALIAS      LINK     SPW  RPW RU Size  SessionId
  BS5       CPSVCMG   SYSTST.BS6         @I070422    0A1A1AD8 2    16    512    X'D493172E7FEC5A2E'
  BS5       CPSVCMG   SYSTST.BS6         @I070422    0A1A3E40 2    8     512    X'D49FA72E64936455'

  End of Output ¬BS4NMVT| SESSION /LIST /PARTNER=SYSTST.BS6,ALIAS=@I070422
```

Note: The output list items are sorted in alphabetical order using the PARTNER NAME, partner ALIAS, and SessionID fields.

List Sessions by Station Name

Syntax



This command returns the list of all sessions with the station name *linkname*.

If there is no resource found, the string `THE RESOURCES LIST IS EMPTY` is returned.

Command Example

session /list /station=09eb39e0tcid

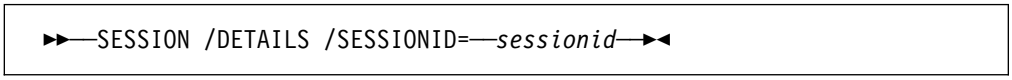
Command Result

```
Start of Output ¬ERS4NMVT| SESSION /LIST /STATION=09EB39E0TCID

LU ALIAS  MODE      FQ PARTNER NAME and ALIAS      LINK     SPW  RPW RU Size  SessionId
ERS4     SNASVCMG   SYSTSTAP.CNM25     @I805006    09EB39E0TCID 10   8     512    X'FD6BB92839AFA786'
ERS4     SNASVCMG   SYSTSTAP.CNM25     @I805006    09EB39E0TCID 10   8     512    X'FFAFF3ED8116AE23'
ERS4     SNASVCMG   SYSTSTAP.NNSIS185  @I812979    09EB39E0TCID 10   8     512    X'F06BB92839AFA789'
ERS4     CPSVRMGR   SYSTSTAP.NNSIS185  @I812979    09EB39E0TCID 10   35    512    X'FD6BB92839AFBEBF'
ERS4     CPSVRMGR   SYSTSTAP.NNSIS185  @I812979    09EB39E0TCID 10   1     512    X'FFAFF3ED8116B055'
Nb items of whole list = 5

End of Output ¬ERS4NMVT| SESSION /LIST /STATION=09EB39E0TCID
```

Note: The output list items are sorted in alphabetical order using the PARTNER NAME, partner ALIAS, and SessionID fields.

Display the Details View for a Given Session ID

Syntax



This command returns the details view of the session with sessionid name *sessionid*.

If the *sessionid* is not found, the string `THE SESSION sessionid IS UNKNOWN` is returned.

Command Example

session /details /sessionid=D49FA72E64938D51

Note: The session id can be entered in lowercase or uppercase letters but without a prefix X and quotes.

Command Result

```
Start of Output ¬BS4NMVT| SESSION /DETAILS /SESSIONID=D49FA72E64938D51

Session ID                          X'D49FA72E64938D51'
Conversation ID                     X'00000000'
LU alias                            BS5
Partner LU alias                    @I080922
Mode name                           CPSVCMG
Send maximum RU size                512
Receive maximum RU size             512
Send pacing window                  2
Receive pacing window               8
Link name                           0A19BF68TCID
Outbound destination address (DAF)  X'00'
Outbound origin address (OAF)       X'01'
OAF-DAF assignor indicator (ODAI)   B'32'
Session type                        LU-LU session
Connection type                     Peer
Procedure correlator ID (PCID)      X'2EA79FD4518D9364'
PCID generator CP name              SYSTST.BS5
Conversation group ID               X'DE180537'
LU name                             SYSTST.BS5
Partner LU name                     SYSTST.BS6
Pacing type                         Adaptive

End of Output ¬BS4NMVT| SESSION /DETAILS /SESSIONID=D49FA72E64938D51
```

Network Topology Display

Syntax

```
►►──APPN /TOPOLOGY──►◄
```

This command returns network node topology information.

Command Example

appn /topology

Command Result

```
Start of Output ¬BS4NMVT| APPN /TOPOLOGY

1> Network node CP name            SYSTSTAP.CDRM10
   Route additional resistance     128
   Congested?                      No
   Quiescing?                      No
   ISR depleted                    No
   Cent Direct Support             No
   1.1> TG partner CP name              SYSTSTAP.RT830
        Transmission group number       21
        TG partner node type            Real
        Quiescing?                      No
        Topology                        Network
        Effective capacity              31.95 Megabits per second
        Cost per connect time           0
        Cost per byte                   0
        Propagation delay               384.00 microseconds (lan)
        User defined parameter 1        128
        User defined parameter 2        128
        User defined parameter 3        128
        Security                        Nonsecure

2> Network node CP name            SYSTSTAP.CDRM11
   Route additional resistance     128
   Congested?                      No
   Quiescing?                      No
   ISR depleted                    No
   Cent Direct Support             No
   2.1> TG partner CP name              SYSTSTAP.SR3
        Transmission group number       21
        TG partner node type            Real
        Quiescing?                      No
        Topology                        Network
        Effective capacity              31.95 Megabits per second
        Cost per connect time           0
        Cost per byte                   0
        Propagation delay               384.00 microseconds (lan)
        User defined parameter 1        128
        User defined parameter 2        128
```

```
       User defined parameter 3        128
       Security                        Nonsecure

3> Network node CP name            SYSTSTAP.MAERS6
   Route additional resistance     128
   Congested?                      No
   Quiescing?                      No
   ISR depleted                    No
   Cent Direct Support             No
   3.1> TG partner CP name                SYSTSTAP.SR3
       Transmission group number       21
       TG partner node type            Real
       Quiescing?                      No
       Topology                        Network
       Effective capacity              15.97 Megabits per second
       Cost per connect time           0
       Cost per byte                   0
       Propagation delay               384.00 microseconds (lan)
       User defined parameter 1        128
       User defined parameter 2        128
       User defined parameter 3        128
       Security                        Nonsecure

5> Network node CP name            SYSTSTAP.RT830
   Route additional resistance     128
   Congested?                      No
   Quiescing?                      No
   ISR depleted                    No
   Cent Direct Support             No
   5.4> TG partner CP name                SYSTSTAP.MAERS6
       Transmission group number       21
       TG partner node type            Real
       Quiescing?                      No
       Topology                        Network
       Effective capacity              15.97 Megabits per second
       Cost per connect time           0
       Cost per byte                   0
       Propagation delay               384.00 microseconds (lan)
       User defined parameter 1        0
       User defined parameter 2        0
       User defined parameter 3        0
       Security                        Nonsecure

   5.1> TG partner CP name                SYSTSTAP.SR3
       Transmission group number       21
       TG partner node type            Real
       Quiescing?                      No
       Topology                        Network
       Effective capacity              15.97 Megabits per second
       Cost per connect time           0
       Cost per byte                   0
       Propagation delay               384.00 microseconds (lan)
       User defined parameter 1        0
       User defined parameter 2        0
       User defined parameter 3        0
       Security                        Nonsecure

   5.2> TG partner CP name                SYSTSTAP.SR3
```

```
        Transmission group number       24
        TG partner node type            Real
        Quiescing?                      No
        Topology                        Network
        Effective capacity              15.97 Megabits per second
        Cost per connect time           0
        Cost per byte                   0
        Propagation delay               384.00 microseconds (lan)
        User defined parameter 1        0
        User defined parameter 2        0
        User defined parameter 3        0
        Security                        Nonsecure

   5.3> TG partner CP name                 SYSTSTAP.SR3
        Transmission group number       25
        TG partner node type            Real
        Quiescing?                      No
        Topology                        Network
        Effective capacity              249.60 Kilobits per second
        Cost per connect time           0
        Cost per byte                   64
        Propagation delay               147.46 milliseconds (packet switched network)
        User defined parameter 1        0
        User defined parameter 2        0
        User defined parameter 3        0
        Security                        Public switched network
LISTID = 7, PAGE = 1 OF 7
Date of the list = 06-20-2000 11:36:11

End of Output ¬BS4NMVT| APPN /TOPOLOGY
```

Summary List of the Network Topology

Syntax

This command returns a summary list of the network topology, consisting of one line per network node indicating the name of the network node control point. If you want to obtain the detailed view of the topology information for a particular network node, use the **APPN /TOPOLOGY /NN** command (see page 5-58).

Command Example

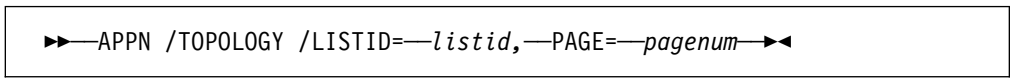
appn /topology /summary

Command Result

```
Start of Output ¬BS4NMVT| APPN /TOPOLOGY /SUMMARY

1> Network node CP name            SYSTSTAP.CDRM10
2> Network node CP name            SYSTSTAP.CDRM11
3> Network node CP name            SYSTSTAP.MAERS6

End of Output ¬BS4NMVT| APPN /TOPOLOGY /SUMMARY
```

Retrieve a Page of Network Topology Display with Listid

Syntax



Use this command to retrieve the contents of a page of an APPN topology information list that spans multiple pages and, therefore, is identified by a *listid*. This multiple-page APPN topology information list can be the result of an **APPN /TOPOLOGY** command or an **APPN /TOPOLOGY /SUMMARY** command. The NetView RUNCMD repetition is under the responsibility of the NetView operator or the automation program. The last list returned contains the following last record.

Command Example

appn /topology /listid=7 , page=7

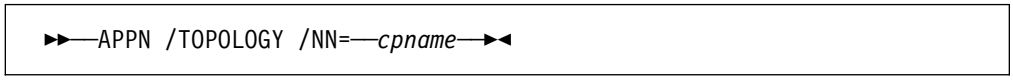
Command Result

```
Start of Output ¬BS4NMVT| APPN /TOPOLOGY /LISTID=7, PAGE=7

4> Network node CP name            SYSTSTAP.SR3
   Route additional resistance     128
   Congested?                      No
   Quiescing?                      No
   ISR depleted                    No
   Cent Direct Support             No
   4.3> TG partner CP name              SYSTSTAP.RT830
        Transmission group number       21
        TG partner node type            Real
        Quiescing?                      No
        Topology                        Network
        Effective capacity              15.97 Megabits per second
        Cost per connect time           0
        Cost per byte                   0
        Propagation delay               0.00 seconds (minimum)
        User defined parameter 1        0
        User defined parameter 2        0
        User defined parameter 3        0
        Security                        Nonsecure

   4.1> TG partner CP name              SYSTSTAP.RT830
        Transmission group number       34
        TG partner node type            Real
        Quiescing?                      No
        Topology                        Network
        Effective capacity              15.97 Megabits per second
        Cost per connect time           0
        Cost per byte                   0
        Propagation delay               384.00 microseconds (lan)
        User defined parameter 1        0
        User defined parameter 2        0
        User defined parameter 3        0
```

```
       Security                        Nonsecure

   4.2> TG partner CP name                SYSTSTAP.RT830
       Transmission group number       35
       TG partner node type            Real
       Quiescing?                      No
       Topology                        Network
       Effective capacity              249.60 Kilobits per second
       Cost per connect time           0
       Cost per byte                   64
       Propagation delay               147.46 milliseconds (packet switched network)
       User defined parameter 1        0
       User defined parameter 2        0
       User defined parameter 3        0
       Security                        Public switched network
LISTID = 7, PAGE = 7 OF 7
Date of the list = 06-20-2000 11:36:11

End of Output ¬BS4NMVT| APPN /TOPOLOGY /LISTID=7, PAGE=7
```

List Topology Data of an APPN Network Node

Syntax



This command returns the topology data that pertain to the network node *cpname*.

Command Example

appn /topology /nn=syststap.cdrm10

Command Result

```
Start of Output ¬BS4NMVT| APPN /TOPOLOGY /NN=SYSTSTAP.CDRMR10

1> Network node CP name            SYSTSTAP.CDRMR10
   Route additional resistance     128
   Congested?                      No
   Quiescing?                      No
   ISR depleted                    No
   Cent Direct Support             No
   1.1> TG partner CP name                SYSTSTAP.RT830
        Transmission group number       21
        TG partner node type            Real
        Quiescing?                      No
        Topology                        Network
        Effective capacity              31.95 Megabits per second
        Cost per connect time           0
        Cost per byte                   0
        Propagation delay               384.00 microseconds (lan)
        User defined parameter 1        128
        User defined parameter 2        128
        User defined parameter 3        128
        Security                        Nonsecure

End of Output ¬BS4NMVT| APPN /TOPOLOGY /NN=SYSTSTAP.CDRMR10
```

Node Information Display

Syntax

This command returns the network node information.

Command Example

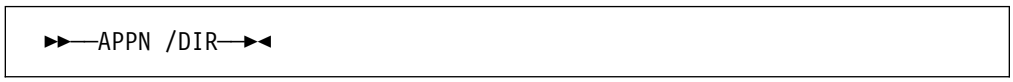
appn /netnode

Command Result

```
Start of Output ¬BS4NMVT| APPN /NETNODE

Route additional resistance     128
Maximum directory cache entries 255
Current directory cache entries 2
Directory save interval         20

End of Output ¬BS4NMVT| APPN /NETNODE
```

Directory Information Display

Syntax



This command returns the directory information.

Command Example

appn /dir

Command Result

```
Start of Output ¬BS4NMVT| APPN /DIR

1> Network node CP name            SYSTSTAP.RT830
Number of associated LUs        65
    LU name                   Owning CP name        LU entry type
   1.1> SYSTSTAP.EN06FR05  SYSTSTAP.EN06FR05          Register
   1.2> SYSTSTAP.LU06FR05  SYSTSTAP.EN06FR05          Register
   1.3> SYSTSTAP.EN06FR04  SYSTSTAP.EN06FR04          Register
   1.4> SYSTSTAP.LU06FR04  SYSTSTAP.EN06FR04          Register
   1.5> SYSTSTAP.EN06FR03  SYSTSTAP.EN06FR03          Register
   1.6> SYSTSTAP.LU06FR03  SYSTSTAP.EN06FR03          Register
   1.7> SYSTSTAP.EN06FR01  SYSTSTAP.EN06FR01          Register
   1.8> SYSTSTAP.LU06FR01  SYSTSTAP.EN06FR01          Register
   1.9> SYSTSTAP.EN06FR02  SYSTSTAP.EN06FR02          Register
   1.10> SYSTSTAP.LU06FR02  SYSTSTAP.EN06FR02         Register
   1.11> SYSTSTAP.EN191028  SYSTSTAP.EN191028         Register
   1.12> SYSTSTAP.LU191028  SYSTSTAP.EN191028         Register
   1.13> SYSTSTAP.EN191026  SYSTSTAP.EN191026         Register
   1.14> SYSTSTAP.LU191026  SYSTSTAP.EN191026         Register
   1.15> SYSTSTAP.EN191024  SYSTSTAP.EN191024         Register
   1.16> SYSTSTAP.LU191024  SYSTSTAP.EN191024         Register
   1.17> SYSTSTAP.EN191022  SYSTSTAP.EN191022         Register
   1.18> SYSTSTAP.LU191022  SYSTSTAP.EN191022         Register
   1.19> SYSTSTAP.EN191020  SYSTSTAP.EN191020         Register
   1.20> SYSTSTAP.LU191020  SYSTSTAP.EN191020         Register
   1.21> SYSTSTAP.EN191018  SYSTSTAP.EN191018         Register
   1.22> SYSTSTAP.LU191018  SYSTSTAP.EN191018         Register
   1.23> SYSTSTAP.EN191016  SYSTSTAP.EN191016         Register
   1.24> SYSTSTAP.LU191016  SYSTSTAP.EN191016         Register
   1.25> SYSTSTAP.EN191014  SYSTSTAP.EN191014         Register
   1.26> SYSTSTAP.LU191014  SYSTSTAP.EN191014         Register
   1.27> SYSTSTAP.EN191012  SYSTSTAP.EN191012         Register
   1.28> SYSTSTAP.LU191012  SYSTSTAP.EN191012         Register
   1.29> SYSTSTAP.EN191010  SYSTSTAP.EN191010         Register
   1.30> SYSTSTAP.LU191010  SYSTSTAP.EN191010         Register
   1.31> SYSTSTAP.EN191008  SYSTSTAP.EN191008         Register
   1.32> SYSTSTAP.LU191008  SYSTSTAP.EN191008         Register
   1.33> SYSTSTAP.EN191006  SYSTSTAP.EN191006         Register
   1.34> SYSTSTAP.LU191006  SYSTSTAP.EN191006         Register
```

```
   1.35> SYSTSTAP.EN191004  SYSTSTAP.EN191004         Register
   1.36> SYSTSTAP.LU191004  SYSTSTAP.EN191004         Register
   1.37> SYSTSTAP.EN191002  SYSTSTAP.EN191002         Register
   1.38> SYSTSTAP.LU191002  SYSTSTAP.EN191002         Register
   1.39> SYSTSTAP.EN237400  SYSTSTAP.EN237400         Register
   1.40> SYSTSTAP.LU237400  SYSTSTAP.EN237400         Register
   1.41> SYSTSTAP.EN218000  SYSTSTAP.EN218000         Register
   1.42> SYSTSTAP.LU218000  SYSTSTAP.EN218000         Register
   1.43> SYSTSTAP.EN237900  SYSTSTAP.EN237900         Register
   1.44> SYSTSTAP.LU237900  SYSTSTAP.EN237900         Register
   1.45> SYSTSTAP.EN237600  SYSTSTAP.EN237600         Register
   1.46> SYSTSTAP.LU237600  SYSTSTAP.EN237600         Register
   1.47> SYSTSTAP.EN238500  SYSTSTAP.EN238500         Register
   1.48> SYSTSTAP.LU238500  SYSTSTAP.EN238500         Register
   1.49> SYSTSTAP.EN218600  SYSTSTAP.EN218600         Register
   1.50> SYSTSTAP.LU218600  SYSTSTAP.EN218600         Register
   1.51> SYSTSTAP.EN218500  SYSTSTAP.EN218500         Register
   1.52> SYSTSTAP.LU218500  SYSTSTAP.EN218500         Register
   1.53> SYSTSTAP.EN236900  SYSTSTAP.EN236900         Register
   1.54> SYSTSTAP.LU236900  SYSTSTAP.EN236900         Register
   1.55> SYSTSTAP.EN236800  SYSTSTAP.EN236800         Register
   1.56> SYSTSTAP.LU236800  SYSTSTAP.EN236800         Register
   1.57> SYSTSTAP.EN237000  SYSTSTAP.EN237000         Register
   1.58> SYSTSTAP.LU237000  SYSTSTAP.EN237000         Register
   1.59> SYSTSTAP.EN218700  SYSTSTAP.EN218700         Register
   1.60> SYSTSTAP.LU218700  SYSTSTAP.EN218700         Register
   1.61> SYSTSTAP.EN218100  SYSTSTAP.EN218100         Register
   1.62> SYSTSTAP.LU218100  SYSTSTAP.EN218100         Register
   1.63> SYSTSTAP.EN218200  SYSTSTAP.EN218200         Register
   1.64> SYSTSTAP.LU218200  SYSTSTAP.EN218200         Register
   1.65> SYSTSTAP.RT830     SYSTSTAP.RT830            Home
2> Network node CP name            SYSTSTAP.CDRM10
Number of associated LUs        2
    LU name                Owning CP name          LU entry type
   2.1> SYSTSTAP.L10REP02  SYSTSTAP.CDRM10            Cache
   2.2> SYSTSTAP.CNM10     SYSTSTAP.CDRM10            Cache

End of Output ¬BS4NMVT| APPN /DIR
```

Summary of APPN Network Node Directory

Syntax

This command returns a summary list of the network node directory consisting of one line per network node, indicating the number of associated LUs. If you want to display the detailed view of the directory information for a particular network node, use the **APPN /DIR /NN** command (see page 5-67).

Command Example

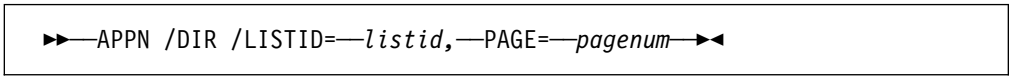
appn /dir /summary

Command Result

```
Start of Output ¬BS4NMVT| APPN /DIR /SUMMARY

1> Network node CP name     SYSTSTAP.RT830   Number of associated LUs 65
2> Network node CP name     SYSTSTAP.CDRMR10 Number of associated LUs  2

End of Output ¬BS4NMVT| APPN /DIR /SUMMARY
```

Retrieve a Page of Directory Information

Syntax



Use this command to retrieve the contents of a page of an APPN directory information list that spans multiple pages and, therefore, is identified by a *listid*. This multiple-page APPN directory information list can be the result of an **APPN /DIR** command or an **APPN /DIR /SUMMARY** command.

Command Example

An **APPN /DIR** command output spans over 3 pages and a list identification of "0" is assigned to the command output. An **APPN /DIR /LISTID=0 PAGE=3** is issued to display the last page of the **APPN /DIR** command output.

Command Result

APPN /DIR

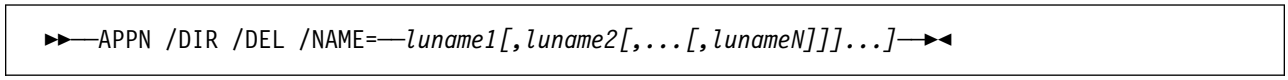
```
Start of Output ¬ERS4NMVT| APPN /DIR

1> Network node CP name            SYSTSTAP.ERS4
Number of associated LUs         1129
        LU name              Owning CP name      LU entry type
   1.1> SYSTSTAP.EN2A8218    SYSTSTAP.NNDCS2     Register
   1.2> SYSTSTAP.EN2A8216    SYSTSTAP.NNDCS2     Register
.
.
   1.496> SYSTSTAP.E1289192   SYSTSTAP.NNDCS2     Register
   1.497> SYSTSTAP.LU289242   SYSTSTAP.NNDCS2     Register
LISTID = 0, PAGE = 1 OF 3
Date of the list = 06-05-2000 12:34:23

End of Output ¬ERS4NMVT| APPN /DIR
```

APPN /DIR /LISTID=0,PAGE=3

```
Start of Output ¬ERS4NMVT| APPN /DIR /LISTID=0,PAGE=3

   1.998> SYSTSTAP.EN288002   SYSTSTAP.NNDCS2     Register
   1.999> SYSTSTAP.LU288004   SYSTSTAP.NNDCS2     Register
   1.1000> SYSTSTAP.LU288002   SYSTSTAP.NNDCS2     Register
.
.
.
   1.1128> SYSTSTAP.LUTEST1    SYSTSTAP.BIGNETA2   Home
   1.1129> SYSTSTAP.ERS4       SYSTSTAP.ERS4       Home
2> Network node CP name            SYSTSTAP.ICN13
Number of associated LUs        2
        LU name             Owning CP name      LU entry type
   2.1> SYSTSTAP.ICN13      SYSTSTAP.ICN13      Cache
          2.2> SYSTSTAP.CNM13      SYSTSTAP.ICN13      Cache
3> Network node CP name            SYSTSTAP.ERS5
Number of associated LUs        1
        LU name             Owning CP name      LU entry type
   3.1> SYSTSTAP.ERS5       SYSTSTAP.ERS5       Cache
4> Network node CP name            SYSTSTAP.ICN23
Number of associated LUs        1
        LU name             Owning CP name      LU entry type
   4.1> SYSTSTAP.L23RESP    SYSTSTAP.ICN23      Cache
LISTID = 0, PAGE = 3 OF 3
Date of the list = 06-05-2000 12:34:23

End of Output ¬ERS4NMVT| APPN /DIR /LISTID=0,PAGE=3
```

Delete a List of APPN Directory Entries by Name

Syntax



Use this command to delete one entry or a set of entries from the APPN directory. The LU name (**netid.luname**), as displayed in an APPN directory information display (APPN /DIR), is used to address an entry to be deleted.

Command Example

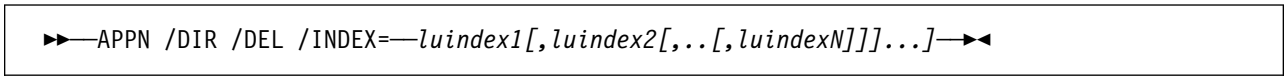
appn /dir /del /name=syststap.lers7123,syststap.lers7099,syststap.lers7125,syststap.lers7077

Command Result

```
Start of Output ¬ERS4NMVT| APPN /DIR /DEL /NAME=SYSTSTAP.LERS7123,SYSTSTAP.LERS7099,SYSTSTAP.LERS7125,...

Delete SYSTSTAP.LERS7123 has been requested successfully
Delete SYSTSTAP.LERS7099 has been requested successfully
Delete SYSTSTAP.LERS7125 has been requested successfully
Delete SYSTSTAP.LERS7077 has been requested successfully

End of Output  ¬ERS4NMVT| APPN /DIR /DEL /NAME=SYSTSTAP.LERS7123,SYSTSTAP.LERS7099,SYSTSTAP.LERS7125,...
```

Delete a List of APPN Directory Entries by Index

Syntax



Use this command to delete one entry or a set of entries from the APPN directory. The LU index (**n.i>**), as displayed in an APPN directory information display (APPN /DIR), is used to address an entry to be deleted. The corresponding LU names (**netid.luname**) are retrieved and used to request the withdrawal of the directory entries.

Command Example

appn /dir /del /index=1.12,1.78,1.36,1.81,3.118,3.32,3.54,3.17

Command Result

```
Start of Output ¬ERS4NMVT| APPN /DIR /DEL /INDEX=1.12,1.78,1.36,1.81,3.118,3.32,3.54,3.17
Delete SYSTSTAP.D24LA66  has been requested successfully
Delete SYSTSTAP.D24LA7C  has been requested successfully
Delete SYSTSTAP.UNDA006  has been requested successfully
Delete SYSTSTAP.ENSIS184 has been requested successfully
Delete SYSTSTAP.LERS7049 has been requested successfully
Delete SYSTSTAP.LERS7046 has been requested successfully
Delete SYSTSTAP.LERS7075 has been requested successfully
Delete SYSTSTAP.LERS7117 has been requested successfully

End of Output  ¬ERS4NMVT| APPN /DIR /DEL /INDEX=1.12,1.78,1.36,1.81,3.118,3.32,3.54,3.17
```

List the Directory Data for an APPN Network Node

Syntax

This command returns the directory data that pertains to the network node *cpname*.

Command Example

appn /dir /nn=syststap.cdrm10

Command Result

```
Start of Output ¬BS4NMVT| APPN /DIR /NN=SYSTSTAP.CDMR10

2> Network node CP name            SYSTSTAP.CDRMR10
Number of associated LUs          2
    LU name                   Owning CP name        LU entry type
   2.1> SYSTSTAP.L10REP02  SYSTSTAP.CDRMR10           Cache
   2.1> SYSTSTAP.L10REP02  SYSTSTAP.CDRMR10           Cache
   2.2> SYSTSTAP.CNM10     SYSTSTAP.CDRMR10           Cache

End of Output ¬BS4NMVT| APPN /DIR /NN=SYSTSTAP.CDMR10
```

Connection Information Display

Syntax

This command returns the network connection information.

Command Example

appn /connect

Command Result

```
Start of Output ¬BS4NMVT| APPN /CONNECT

Connection network definitions  0

End of Output ¬BS4NMVT| APPN /CONNECT
```

HPR Connection Information Display

Syntax

This command returns the HPR connection information.

Command Example

appn /hpr

Command Result

```
Start of Output ¬BS4NMVT| APPN /HPR

 TCID      Partner Name       COS       ISR#      Status       Port#
A197720    SYSTST.BS6         RSETUP.B   0       Active       NNP
A19BF68    SYSTST.BS6         CPSVCMGB   1       Active       NNP
A197BC0    SYSTST.BS6         CPSVCMGB   1       Active       NNP
FF6C7CF0   SYSTST.CDRM11      #CONNECT   0       Active       2112/2144

End of Output ¬BS4NMVT| APPN /HPR
```

Display the APPN Connectivity Counters

Syntax

This command displays the connectivity counters.

Command Example

appn /cc

Command Result

```
| Start of Output ¬ERS5NMVT| APPN /CC

| Total counters:
|   Number of active PUs: 86
|   Number of active ISR: 2
| DLUR counters:
|   Number of active PUs: 1
|   Number of active SSCP_LU sessions: 1
|   Number of pending SSCP_LU sessions: 0
|   Number of down SSCP_LU sessions: 0
|   Total number of SSCP_LU sessions: 1
|   Number of active LU-LU sessions: 0

| End of Output ¬ERS5NMVT| APPN /CC
```

Appendix A. APPN Network Management Commands in NetView RUNCMD - Netview Procedures (REXX)

The RUNCMD command support in the 3746 Service Processor allows the user to issue network management commands to the service processor from the NetView NCCF console. In order to simplify the usage of the NetView RUNCMD in this particular case, a set of REXX procedures has been developed. Each procedure has a *mnemonic name* that indicates an *action* to be performed towards an *object* or a *set of objects* selected using a *criterion*.

Table A-1, Table A-2, and Table A-3 on page A-2 provide the naming conventions for objects, actions, and selection criteria, while Table A-4 on page A-3 displays the commands-to-procedures relationships.

Table A-1. Naming Conventions for Objects

Object	**Code**
APPN	APPN
Configuration	CO
NNP	NN
NNP Control Point (CP)	NNCP
Port	PO
Session	SE
Station	ST

Table A-2. Naming Conventions for Actions

Action	**Code**
Activate	AC
Deactivate	DE
Delete	DEL
Details	DT
Dump	D
List	LI
Restart	RE
Start	S
Status	ST
Summary	SUM
Stop	P

Table A-3. Naming Conventions for Selection Criteria	
Selection Criterion or Command Option	**Code**
LU Alias Name	LU
Mode Name	MO
Name	NA
No ESCON IML	NOIML
Partner	PA
Station Link Name	ST

Installing and Using the Procedures Using the RUNCMD

All the REXX procedures listed in Table A-4 on page A-3 are available on the 3746 Service Processor (SP) in the file EULRUSMP.ZIP located in F:\SP_RW\.

Extract the REXX Procedures

1. Using DCAF or JAVA® remote console file transfer, extract the EULRUSMP.ZIP file.
2. Unzipping the file will produce a series of .txt files. There is one file per procedure (for instance, the appn.txt file corresponds to the APPN procedure) plus a file named **spnval.txt** which is a procedure invoked by every other procedure for 3746 service point name validity checking.

Upload the REXX Procedures Files to OS/390

The REXX procedures must be uploaded to an OS/390 Partitioned Dataset that will be concatenated to the definitions of your NetView DSICLD file. Use the "Send file option" of a 3270 emulator to transfer the procedure .txt files to OS/390 via a TSO userID.

Configure the Procedures to Your Environment

A service point name **spname** is passed to the **spnval** procedure for validation. Currently, the **spname** is a 3- to 4-character 3746 identification name that is appended to the string **nmvt** to form the PU name of the NetView Service Point. The **spnval** procedure uses an internal table (character string) to validate this 3746 identification and returns to the caller the Service Point PU name (for instance **bs8nmvt** for the **bs8** node). The contents of **spnval** can be adapted to the user's needs.

Table A-4 (Page 1 of 3). Commands-to-Procedures Relationships	
Network Command	**Procedure Name and *parameters***
NNP /STATUS	NNST *spname*
NNP /RESTART	NNRE *spname*
NNP /STARTCP	NNCPS *spname*
NNP /STOPCP	NNCPP *spname*
NNP /RSTARTCP	NNCPRE *spname*
NNP /ACTIVECP	NNCPAC *spname*
NNP /DUMPCP	NNCPD *spname*
CONF /LIST	COLI *spname*
CONF /ACTIVATE /NAME=*"configuration name"*	COAC *spname "configuration name"*
CONF /ACTIVATE /NAME=*"configuration name"* /NOIML	COAC *spname "configuration name" NOIML*
PORT /LIST PORT /LIST /STATUS=*portstatus* PORT /LIST /DLC=*dlcname* PORT /LIST /STATUS=*portstatus* /DLC=*dlcname* PORT /LIST /NAME=*portname* PORT /LIST /NUMBER=*portnumber*	POLI *spname* POLI *spname portstatus* (see below) ACTIVATED / ACTIVATING / DEACTIVATED / DEACTIVATING / NOT_ACTIVE POLI *spname dlcname* (see below) TR_IP / FR_IP / FR / SDLC / PPP / IBMTRNET / ESCON / ESCON_IP / X25 / IP_X25 POLI *spname portstatus dlcname* POLI *spname portname* (with or without wildcard) POLI *spname portnumber*
PORT /DETAILS /NAME=*portname* PORT /DETAILS /NUMBER=*portnumber*	PODT *spname portname* PODT *spname portnumber*
PORT /ACT /ALL PORT /ACT /NAME=*portname1 [,portname2...]* PORT /ACT /NUMBER=*portnumber1 [,portnumber2...]*	POAC *spname all* POAC *spname portname1 [portname2 [portname3]]* POAC *spname portnumber1 [portnumber2 [portnumber3]]*

Table A-4 (Page 2 of 3). Commands-to-Procedures Relationships	
Network Command	**Procedure Name and *parameters***
PORT /DEACT /ALL PORT /DEACT /NAME=*portname1[,portname2...*][/F] PORT /DEACT /NUMBER=*portnumber1[,portnumber2...*][/F]	PODE *spname all* PODE *spname portname1 [portname2 [portname3]] [/F]* PODE *spname portnumber1 [portnumber2 [portnumber3]]* [/F]
STATION /LIST STATION /LIST /LISTID=listid, PAGE=pagenum STATION /LIST /STATUS=*stationstatus*	STLI *spname* STLI *spname listid pagenum* STLI *spname stationstatus* (see below) NOT_ACTIVE / CONALS_PND / XID_PND / CONTACTPND / CONTACTED / DISC_PND
STATION /LIST /NAME=*linkname* STATION /LIST /LISTID=*listid*, PAGE=*pagenum*	STLINA *spname linkname* STLINA *spname listid pagenum*
STATION /LIST /PARTNER=*partnername*	STLIPA *spname partnername*
STATION /LIST /PORTNAME=*portname*	STLIPO *spname portname*
STATION /DETAILS /NAME=*linkname*	STDT *spname linkname*
STATION /ACT /ALL STATION /ACT /NAME=*linkname1 [,linkname2...*]	STAC *spname all* STAC *spname linkname1 [linkname2 [linkname3]]*
STATION /DEACT /ALL STATION /DEACT /STATION=*linkname1 [,linkname2...*] [/F]	STDE *spname all* STDE *spname linkname1 [linkname2 [linkname3]] [/F]*
SESSION /LIST SESSION /LIST /LISTID=*listid*, PAGE=*pagenum*	SELI *spname* SELI *spname listid pagenum*
SESSION /SUMMARY	SESUM *spname*
SESSION /LIST /LUALIAS=*lualiasname*	SELILU *spname lualiasname*
SESSION /LIST /MODE=*modename*	SELIMO *spname modename*
SESSION /LIST /PARTNER=*partnername*, ALIAS=*aliasname*	SELIPA *spname partnername aliasname*
SESSION /LIST /STATION=*linkname*	SELIST *spname linkname*
SESSION /DETAILS /SESSIONID=*sessionid*	SEDT *spname sessionid*

Table A-4 (Page 3 of 3). Commands-to-Procedures Relationships

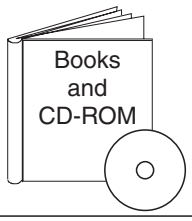
Network Command	**Procedure Name and *parameters***
APPN /TOPOLOGY APPN /TOPOLOGY /LISTID=*listid*, PAGE=*pagenum*	APPN *spname t* APPN *spname t listid pagenum*
APPN /TOPOLOGY /SUMMARY	APPN *spname ts*
APPN /TOPOLOGY /NN=*cpname*	APPN *spname t cpname*
APPN /NETNODE	APPN *spname n*
APPN /DIR APPN /DIR / LISTID=*listid*, PAGE=*pagenum*	APPN *spname d* APPN *spname d listid pagenum*
APPN /DIR /DEL /NAME=*luname1[,luname2[,...[,lunameN]]...]*	APPN *spname dd luname1[luname2[...[lunameN]]...]*
APPN /DIR /DEL /INDEX=*luindex1[,luindex2[,...[,luindexN]]...]*	APPN *spname dd luindex1[luindex2[...[luindexN]]...]*
APPN /DIR /SUMMARY	APPN *spname ds*
APPN /DIR /NN=cpname	APPN *spname d cpname*
APPN /CONNET	APPN *spname c*
APPN /HPR	APPN *spname h*
APPN /CC	APPN *spname cc*

Appendix B. Bibliographies

Customer Documentation for the 3745 (All Models) and 3746 (Model 900)

Table B-1 (Page 1 of 6). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900

This customer documentation has the following formats:

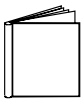


Finding Information

3745 Models A and 3746 Books

All of the books in the 3745 Models A and 3746 library are available on the CD-ROM that contains the Licensed Internal Code (LIC) for the machine.

Evaluating and Configuring



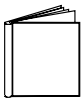
GA33-0092

IBM 3745 Communication Controller
Models 210, 310, 410, and 610

Introduction

Gives an introduction of the IBM Models 210 to 610 capabilities.

For Models A, refer to the *Overview*, GA33-0180.

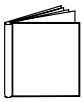


GA33-0180

IBM 3745 Communication Controller Models A and 170[2]
IBM 3746 Nways Multiprotocol Controller
Models 900 and 950

Overview

Gives an overview of connectivity capabilities within SNA, APPN, and IP networking.



GA27-4234

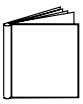
IBM 3745 Communication Controller Models A[2]
IBM 3746 Nways Multiprotocol Controller
Models 900 and 950

Planning Series:
Overview, Installation, and Integration

Provides information for:

- Overall 3746 planning
- Installation and upgrade scenarios
- Controller and service processor network integration
- Related MOSS-E and CCM worksheets for these tasks.

Table B-1 (Page 2 of 6). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900



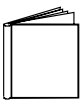
GA27-4235

IBM 3745 Communication Controller Models A[2]
IBM 3746 Nways Multiprotocol Controller
Models 900 and 950

Planning Series:
Serial Line Adapters

Provides information for:

- Serial line adapter descriptions
- Serial line adapter line weights and connectivity
- Types of SDLC support
- Configuring X.25 lines
- Performance tuning for frame-relay, PPP, X.25, and NCP lines.
- ISDN adapter description and configuration.



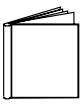
GA27-4236

IBM 3745 Communication Controller Models A[2]
IBM 3746 Nways Multiprotocol Controller
Models 900 and 950

Planning Series:
Token Ring and Ethernet

Provides information for:

- Token-ring adapter description and configuration
- Ethernet adapter description and configuration.



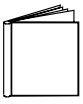
GA27-4237

IBM 3745 Communication Controller Models A[2]
IBM 3746 Nways Multiprotocol Controller
Models 900 and 950

Planning Series:
ESCON Channels

Provides information for:

- ESCON adapter descriptions
- ESCON configuration and tuning information
- ESCON configuration examples.



GA27-4238

IBM 3745 Communication Controller Models A[2]
IBM 3746 Nways Multiprotocol Controller
Models 900 and 950

Planning Series:
Physical Planning

Provides information for:

- 3746 and MAE physical planning details
- 3746 and MAE cable information
- Explanation of installation sheets
- 3746 plugging sheets.

Table B-1 (Page 3 of 6). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900

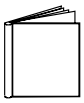
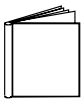
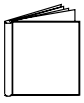
	GA27-4239	***IBM 3745 Communication Controller Models A²*** ***IBM 3746 Nways Multiprotocol Controller*** ***Models 900 and 950*** ***Planning Series:*** ***Management Planning*** Provides information for: • Overview for 3746 • 3746 APPN/HPR, IP router, and X.25 • NetView Performance Monitor (NPM), remote consoles, and RSF • MAE APPN/HPR management.
	GA27-4240	***IBM 3745 Communication Controller Models A²*** ***IBM 3746 Nways Multiprotocol Controller*** ***Models 900 and 950*** ***Planning Series:*** ***Multiaccess Enclosure Planning*** Provides information for: • MAE adapters details • MAE ESCON planning and configuration • ATM and ISDN support.
	GA27-4241	***IBM 3745 Communication Controller Models A²*** ***IBM 3746 Nways Multiprotocol Controller*** ***Models 900 and 950*** ***Planning Series:*** ***Protocol Descriptions*** Provides information for: • Overview and details about APPN/HPR and IP.
	On-line information	***IBM 3745 Communication Controller Models A²*** ***IBM 3746 Nways Multiprotocol Controller*** ***Models 900 and 950*** ***Planning Series:*** ***Controller Configuration and Management Worksheets*** Provides planning worksheets for ESCON, Multiaccess Enclosure, serial line, and token-ring definitions.
Preparing Your Site		
	GC22-7064	***IBM System/360™, System/370™, 4300 Processor*** ***Input/Output Equipment Installation Manual-Physical Planning*** (Including Technical News Letter GN22-5490) Provides information for physical installation for the 3745 Models 130 to 610. For 3745 Models A and 3746 Model 900, refer to the *Planning Guide*, GA33-0457.

Table B-1 (Page 4 of 6). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900

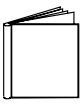
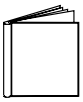
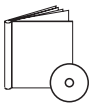
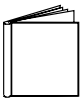
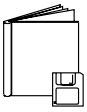
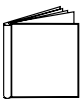
	GA33-0127	***IBM 3745 Communication Controller Models 210, 310, 410, and 610*** ***Preparing for Connection*** Helps for preparing the 3745 Models 210 to 610 cable installation. For 3745 Models A refer to the *Connection and Integration Guide*, SA33-0129.
Preparing for Operation		
	GA33-0400	***IBM 3745 Communication Controller All Models***[3] ***IBM 3746 Nways Multiprotocol Controller Models 900 and 950*** ***Safety Information***[1] Provides general safety guidelines.
	SA33-0129	***IBM 3745 Communication Controller All Models***[3] ***IBM 3746 Nways Multiprotocol Controller Model 900*** ***Connection and Integration Guide***[1] Contains information for connecting hardware and integrating network of the 3745 and 3746-900 after installation.
	SA33-0416	***Line Interface Coupler Type 5 and Type 6 Portable Keypad Display*** ***Migration and Integration Guide*** Contains information for moving and testing LIC types 5 and 6.
	SA33-0158	***IBM 3745 Communication Controller All Models***[3] ***IBM 3746 Nways Multiprotocol Controller Model 900*** ***Console Setup Guide***[1] Provides information for: • Installing local, alternate, or remote consoles for 3745 Models 130 to 610 • Configuring user workstations to remotely control the service processor for 3745 Models A and 3746 Model 900 using: – DCAF program – Telnet Client program – Java Console support.
Customizing Your Control Program		
	SA33-0178	***Guide to Timed IPL and Rename Load Module*** Provides VTAM procedures for: • Scheduling an automatic reload of the 3745 • Getting 3745 load module changes transparent to the operations staff.
Operating and Testing		

Table B-1 (Page 5 of 6). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900

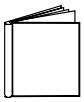
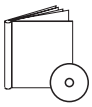
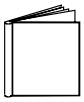
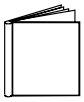
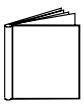
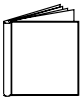
	SA33-0098	***IBM 3745 Communication Controller All Models***[4] ***Basic Operations Guide***[1] Provides instructions for daily routine operations on the 3745 Models 130 to 610.
	SA33-0177	***IBM 3745 Communication Controller Models A***[2] ***IBM 3746 Nways Multiprotocol Controller Model 900*** ***Basic Operations Guide***[1] Provides instructions for daily routine operations on the 3745 Models 17A to 61A, and 3746 Model 900 operating as an SNA node (using NCP), APPN/HPR Network Node, and IP Router.
	SA33-0097	***IBM 3745 Communication Controller All Models***[3] ***Advanced Operations Guide***[1] Provides instructions for advanced operations and testing, using the 3745 MOSS console.
	On-line Information	***Controller Configuration and Management Application*** Provides a graphical user interface for configuring and managing a 3746 APPN/HPR Network Node and IP Router, and its resources. It is also available as a stand-alone application, using an OS/2 workstation. Defines and explains all the 3746 Network Node and IP Router configuration parameters through its online help.
	SH11-3081	***IBM 3746 Nways Multiprotocol Controller Models 900 and 950*** ***Controller Configuration and Management: User's Guide***[5] Explains how to use CCM and gives examples of the configuration process.
	GA33-0479	***IBM 3745 Communication Controller Models A*** ***IBM 3746 Nways Multiprotocol Controller Models 900 and 950*** ***NetView Console APPN Command Reference Guide*** Explains how to use the RUN COMMAND from the NetView S/390 Program and gives examples.
Managing Problems		
	SA33-0096	***IBM 3745 Communication Controller All Models***[3] ***Problem Determination Guide***[1] A guide to perform problem determination on the 3745 Models 130 to 61A.

Table B-1 (Page 6 of 6). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900

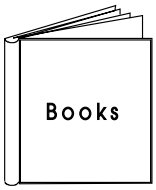
	On-line Information	***Problem Analysis Guide*** An online guide to analyze alarms, events, and control panel codes on: • IBM 3745 Communication Controller Models A[2] • IBM 3746 Nways Multiprotocol Controller Models 900 and 950.
	SA33-0175	***IBM 3745 Communication Controller Models A[2]*** ***IBM 3746 Expansion Unit Model 900*** ***IBM 3746 Nways Multiprotocol Controller Model 950*** ***Alert Reference Guide*** Provides information about events or errors reported by alerts for: • IBM 3745 Communication Controller Models A[2] • IBM 3746 Nways Multiprotocol Controller Models 900 and 950.

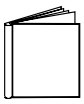
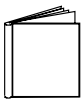
[1] Documentation shipped with the 3745.
[2] 3745 Models 17A to 61A.
[3] 3745 Models 130 to 61A.
[4] Except 3745 Models A.
[5] Documentation shipped with the 3746-900.

Additional Customer Documentation for the 3745 Models 130, 150, 160, and 170

Table B-2. Additional Customer Documentation for the 3745 Models 130 to 170

This customer documentation has the following format:



Finding Information	
	3745 Models A and 3746 Books All of the books in the 3745 Models A and 3746 library are available on the CD-ROM that contains the Licensed Internal Code (LIC) for the machine.
Evaluating and Configuring	
 GA33-0138	***IBM 3745 Communication Controller Models 130, 150, 160, and 170*** ***Introduction*** Gives an introduction about the IBM Models 130 to 170 capabilities, including Model 160. For Model 17A refer to the *Overview*, GA33-0180.
Preparing Your Site	
 GA33-0140	***IBM 3745 Communication Controller Models 130, 150, 160, and 170*** ***Preparing for Connection*** Helps for preparing the 3745 Models 130 to 170 cable installation. For 3745 Model 17A refer to the *Connection and Integration Guide*, SA33-0129.

[1] Documentation shipped with the 3745.

Additional Customer Documentation for the 3746 Model 950

Table B-3. Additional Customer Documentation for the 3746 Model 950

This customer documentation has the following format:

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3745 Models A and 3746 Books

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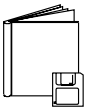

SA33-0356

IBM 3746 Nways Multiprotocol Controller Model 950

User's Guide[1]

Explains how to:

- Carry out daily routine operations on Nways Controller
- Install, test, and customize the Nways controller after installation
- Configure user's workstations to remotely control the service processor using:
  - DCAF program
  - Telnet client program
  - Java console support.

[1] Documentation shipped with the 3746-950.

List of Abbreviations

APPN	Advanced Peer-to-Peer Networking
ASCII	American Standard Code for Information Interchange
ATM	Asynchronous Transfer Mode
CCM	Controller Configuration and Management
CDF-E	Configuration Data File-Extended
CLI	Command Language Interface
CM/2	
CP	Control Program (SNA environment)
	Control Point (APPN environment)
DBCS	Double Byte Character Set
DCAF	Distributed Console Access Facility
DLC	Data Link Control
FFST/2	First Failure Support Technology for OS/2
HPR	High Performance Routing
IEEE	
ID	Identifier
IP	Internet Protocol
ISDN	Integrated Services Digital Network
kbps	kilobits per second
LAN	Local Area Network
LU	Logical Unit
MAE	Multiaccess Enclosure
MOSS	Maintenance and Operator Subsystem
MOSS-E	Maintenance and Operator Subsystem - Extended
NCP	Network Control Program
NMVT	Network Management Vector Transport
NN	Network Node
NNP	Network Node Processor
OS	Operating System
PPP	Point-to-Point Protocol
PU	Physical Unit
PSNA	
RPC	Remote Procedure Call
RU	R
SDLC	Synchronous Data Link Control
SNA	Systems Network Architecture
SP	Service Processor
SPNVAL	Service Point Name Validation
TCP/IP	Transmission Control Protocol/Internet Protocol
TFTP	Trivial File Transfer Protocol
UPM	User Profile management
URL	Uniform Resource Locator
WSID	Workstation Identifier

Glossary

This glossary defines all new terms used in this manual. It also includes terms and definitions from the *IBM Dictionary of Computing,* SC20-1699.

Advanced Peer-to-Peer Networking (APPN). Data communication support that routes data in a network between two or more advanced program-to-program communications (APPC) systems that do not need to be adjacent.

configuration data file (CDF). A MOSS file that contains a description of all the hardware features (presence, type, address, and characteristics) of the 3745 controller.

configuration data file-extended (CDF-E). A MOSS-E file that contains a description of all the hardware features (presence, type, address, and characteristics) of the 3746 Model 900 controller.

control point (CP). A collection of tasks, which provide directory and route selection functions for APPN. An end node control point provides its own configuration, session, and management services with assistance from the control point in its serving network node. A network node control point provides session and routing service.

control program. A computer program designed to schedule and to supervise the execution of programs of the controller.

Distributed Console Access Facility (DCAF). An IBM licensed program that enables a user at one workstation to remotely control, monitor, and operate another workstation.

focal point (FP). An APPN network node that receives alerts. A focal point allows a customer to centrally manage a network.

host processor. (1) A processor that controls all or part of a user application network. (2) In a network, the processing unit in which the access method for the network resides. (3) In an SNA network, the processing unit that contains a system services control point (SSCP). (4) A processing unit that executes the access method for attached communication controllers. Also called *host*.

integrated services digital network (ISDN). A digital end-to-end telecommunication network that supports multiple services including, but not limited to, voice and data.

Internet Protocol (IP). In TCP/IP, a protocol that routes data from its source to its destination in an Internet environment.

local area network (LAN). A computer network located on a user's premises within a limited geographical area. Communication within a LAN is not subject to external regulation; however, communication across the LAN boundary might be subject to some form of regulation.

logical unit (LU). In SNA, a port through which an end user accesses the SNA network in order to communicate with another end user and through which the end user accesses the functions provided by system services control points (SSCPs). An LU can support at least two sessions, one with an SSCP and one with another LU, and might be capable of supporting many sessions with other logical units.

Maintenance and Operator Sub-System (MOSS). The part of the controller that provides operating and servicing facilities to the user's operator and the IBM service representative.

Maintenance and Operator Sub-System-Extended (MOSS-E). The licensed internal code loaded on the service processor fixed disk to provide maintenance and operator facilities to the user and IBM service representative.

Multiaccess Enclosure (MAE). A super processor for the 3746-9x0 with a direct hardware attachment to the controller connectivity switch. The MAE houses eight adapter slots with up to eight ports per adapter, and handles multiple traffic routing for TCP/IP, SNA/DLUR, APPN, and HPR protocols.

NCCF. Network Communications Control Facility

NetView Performance Monitor (NPM). An IBM licensed program that collects, monitors, analyses, and displays data relevant to the performance of a VTAM telecommunication network. It runs as an on-line VTAM application program.

NetView S/390 program. An IBM licensed program network. It runs as an on-line VTAM application program on S/390 System.

network. See *user application network*.

Network Control Program (NCP). An IBM licensed program that provides communication controllers supports for single-domain, multiple domain, and interconnected network capability.

ROP Service. Application that processes (under OS/2 workstation) the commands sent by the NetView program through SPA Router.

SPA Router. It is an OS/2 program that receives a command from a NetView program to the specified application.

REXX. Restructured Extended Executor. A general-purpose, procedural language for end-user personal programming, designed for ease by both casual general users and computer professionals.

Synchronous Data Link Control (SDLC). A discipline conforming to subsets of the Advanced Data Communication Control Procedures (ADCCP) of the American National Standards Institute (ANSI) and High-level Data Link Control (HDLC) of the International Organization for Standardization (IOS), for managing synchronous, code-transparent, serial-by-bit information transfer over a link connection. Transmission exchanges can be duplex or half-duplex over switched or nonswitched links. The configuration of the link connection can be point-to-point, multipoint, or loop.

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3745 Communication Controller Models A
3746 Nways Multiprotocol Controller
Models 900 and 950
NetView Console
APPN Command Reference Guide

Publication No. GA33-0479-02

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