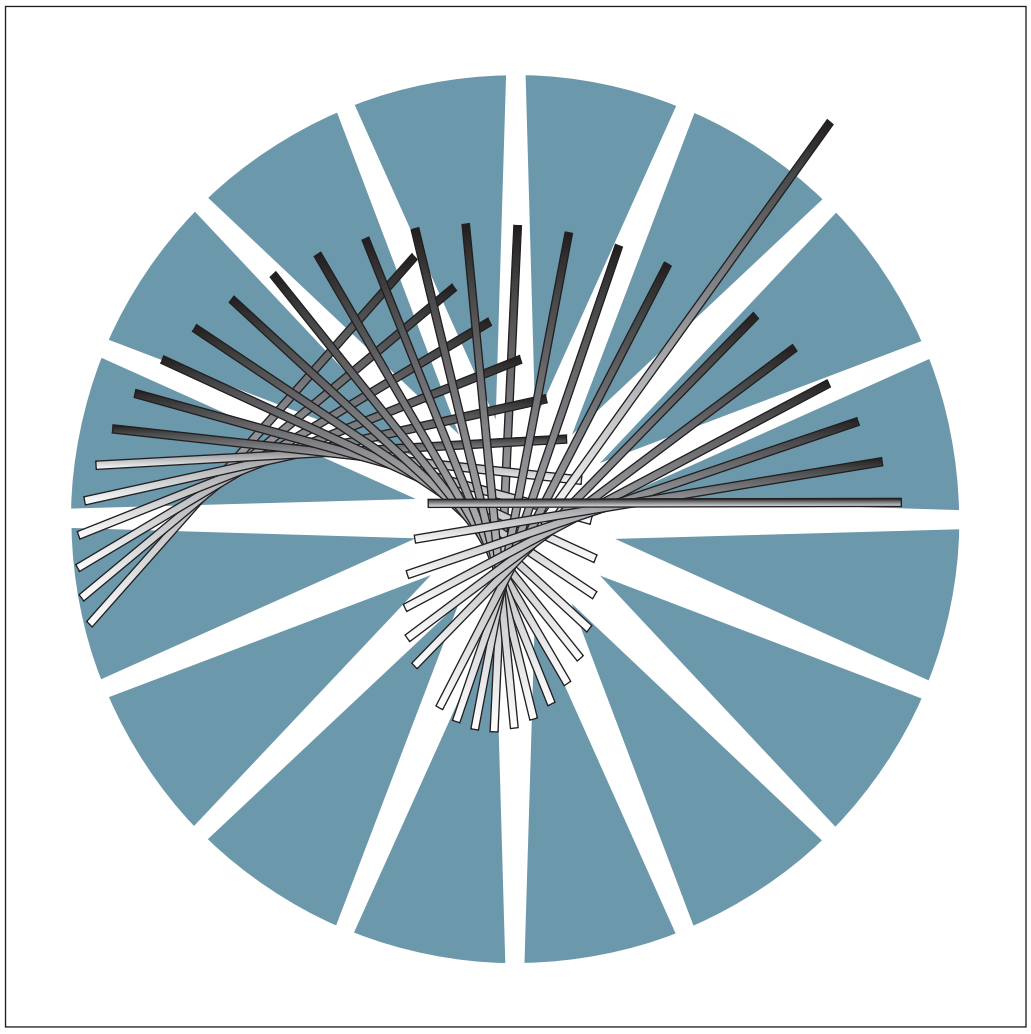
3745 Communication Controller Models A
3746 Nways Multiprotocol Controller
Models 900 and 950

IBM

NetView Console
APPN Command Reference Guide



GA33-0479-00

3745 Communication Controller Models A
3746 Nways Multiprotocol Controller
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Note!

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

First Edition (July 1999)

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

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About This Guide

This guide lists, describes and explains all the commands available to manage an APPN® network using the NetView S/390® Program.

Who Should Use this Guide

This guide has been written for anyone who wants remotely manage 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 List 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 which may be unfamiliar, and the index

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Chapter 1. Introduction

This manual describes the commands available to manage an APPN network using the NetView S/390 Program.

The NetView NCCF RUN COMMAND (RUNCMD) routes commands to service points for processing by one of the service point application. This facility is based upon usage of the **Service Point Application Router (SPA Router)** and **Remote Operations Service (ROP Service)** functions of Communication Manager/2 (CM/2).

Introduction to Communication Manager/2 Service Point Functions

To remotely manage a network, 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 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-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.

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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, “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.

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.

Chapter 2. RUNCMD Implementation Specifications

Based on the description in Chapter 1, “Introduction” on page 1-1 the RUNCMD implementation within the service processor and the network node processor will map the structure described as Configuration 1 but the usage of the Extended service point replaced by the Remote Procedure Call (RPC) channel already implemented between the SP and the NNP.

Each RUNCMD **3746_APPN_Management_Command** issued by NetView is processed by:

1. The **Service point** i.e the service processor
2. The **3746_APPN_Management_Command** is analyzed and mapped on the corresponding service processor and network node processor corresponding command which can be a subset of a:
   - Manage NNP command
   - CCM configuration command
   - CCM Management command
3. The mapped command is then either executed by the SP or sent to the NNP via the current RPC interface
4. The command executed in the NNP return the results to the SP
5. The results are post processed by the **3746_APPN_Management_Command** according to the parameter list.
6. The final results are sent back through the standard output to NetView via the ROP Service.

The following figure gives an outlook of the process.

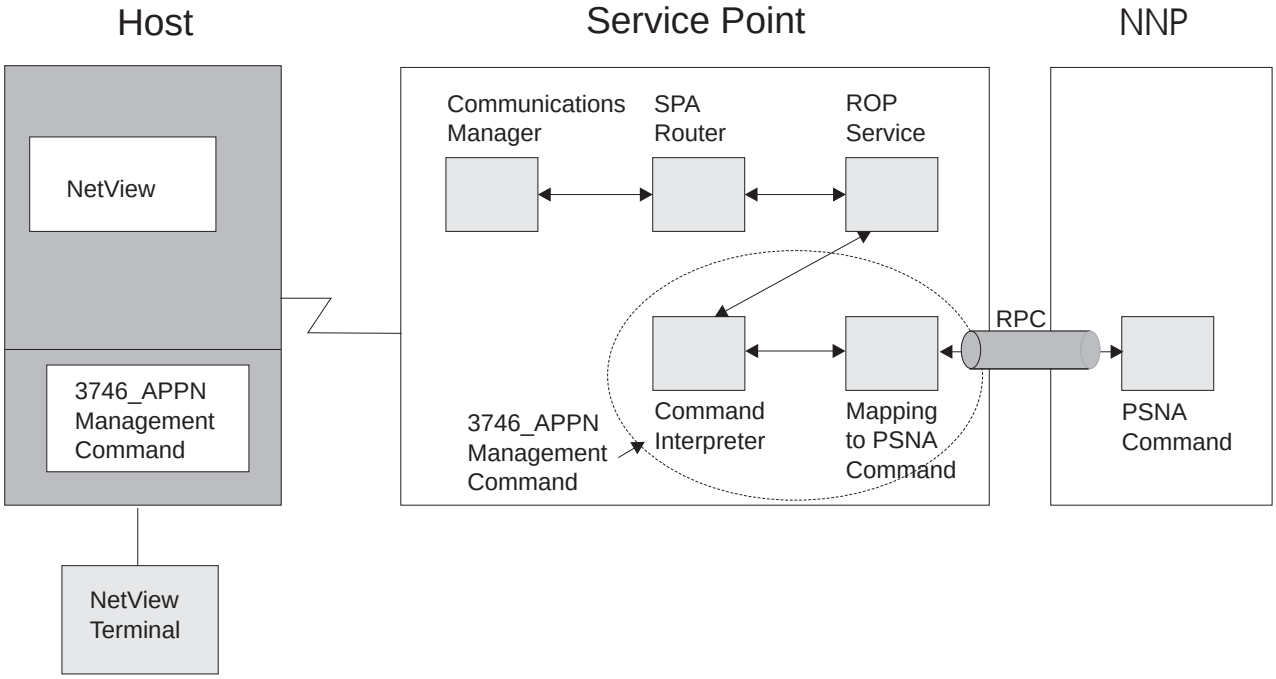

Figure 2-1. Structure of the RUN Command within SP/NNP

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

Service Processor as Service Point

The service processor customization program allows you to enable the NetView RUN command from the SP Customization Window. This is located in the window **NetView Link(s)/Reporting Customization**, one checkbox is added to enable the **NetView RUNCMD** feature (see Figure 2-2).

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

Enable RUNCMD

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

Group of Commands

Three groups of commands are provided via the NETVIEW RUNCMD.

1. NNP and Contol Point management commands
2. Control Point Configuration management commands
3. APPN management commands.

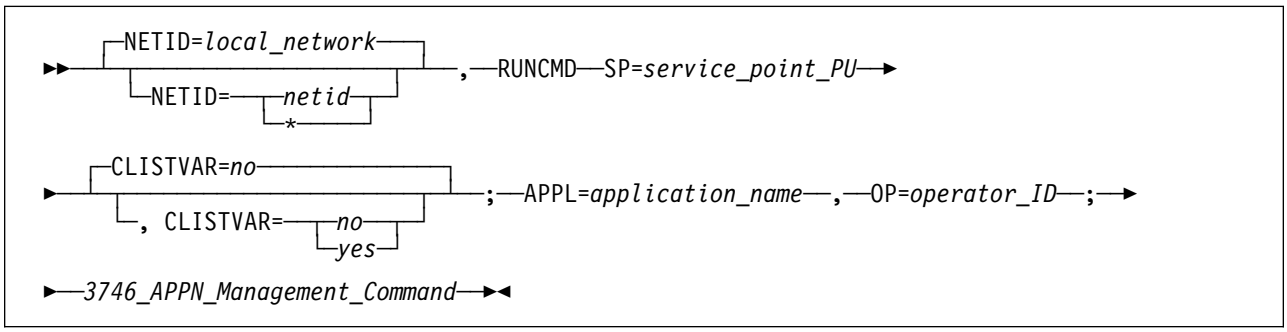
Multiple NetView Management

Several NetView programs may send the RUNCMD concurrently to the service processor. 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, then ROP Service dequeues the next command and so on.

Conflicting commands could be issued from the different operators. This is the responsibility of the end user to manage the network.

What Have Been Implemented in the Service Point

Based on the RUNCMD the commands described use the following syntax.



Where:

NETID
Specifies the network identifier of the network in which the service point is located. If there is another node or logical unit 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 which network to search for the target service point. the *net_id* must be a 1-8 character value using only the EBCDIC charcaters 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 the command being sent to.

application_name
Is the name of the application the command is being sent to.

Note: Th

operator_ID
Is used for ROP Service only. It is the operator ID of the NetView account issuing the command.

CLISTVAR
Specifies whether to save replies in command list variables. You can only use 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” on page 3-1, Chapter 4, “3746 APPN Manage Configurations Commands” on page 4-1, and Chapter 5, “3746 APPN Network Management Commands” on page 5-1).

Note

If your RUNCMD addresses a service point which is not at corresponding EC level, 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

Management commands available through the NetView **RUNCMD** defined in the service processor to control the NNP, CCM configuration management and the CCM APPN management menu.

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NNP Status Command

Syntax

This command returns the current status of the active NNP. The string returned may contain:

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

Start CP

Syntax

This command starts the control program and returns 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

The completion of the command must be verified by issuing a **NNP /STATUS** command.

Stop CP

Syntax

```
►►──NNP /STOPCP──►◄
```

This command stops the control program and returns 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 the option **Link(s) through SNA** has been selected in the **NetView Link(s)/Reporting Customization** (see Figure 2-2 on page 2-2). Otherwise the link between the NetView focal point and the service processor service point is broken. In this case the link must be reestablished manually on the service processor.

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

The completion of the command must be verified by issuing a **NNP /STATUS** command.

Stop and Restart the CP

Syntax

This command stops and restarts the control program and returns 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

The completion of the command must be verified by issuing a **NNP /STATUS** command.

Activate Configuration

Syntax

```
►►──NNP /ACTIVECP──►◄
```

This command allows you to active 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.

Note: Two cases:

- If the option **Link(s) through SNA** has been selected in the **NetView Link(s)/Reporting Customization** (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 to start another command.
- If the option **Link(s) through APPN** has been selected 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

The completion of the command must be verified by issuing a **NNP /STATUS** command.

Restart NNP

Syntax

```
►►──NNP /RESTART──►◄
```

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

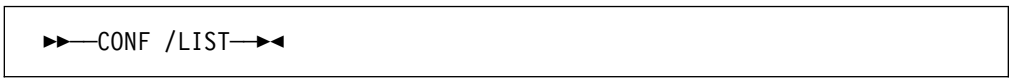
The completion of the command must be verified by issuing a **NNP /STATUS** command.

Chapter 4. 3746 APPN Manage Configurations Commands

The commands related to the management of the configuration are:

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 NBS4NMVT | CONF /LIST
   Configuration name           MMM-DD-YYYY   HH:MM
 -  BS5 840I FR sharing I/A     Jan-04-1999   04:19
 -  ERS6 841P SNA/APPN/IP2/F    Jan-06-1998   06:19
 -  ERS6 841P SNA/APPN/FRFH     Jan-07-1998   07:19
 -  Reg_862B_OSPF               Feb-03-1999   03:19
 -  DR_871A_ERIC                Feb-12-1999   12:19
 -  CCM basic opˆrations        Feb-18-1999   18:19
 A  871-E                       Mar-11-1999   11:19
 -  ERS6-BS5 840F FR SHR OSPF   Mar-14-1997   14:19
 -  ERS6 840 V4.3 IP/FR         May-18-1998   18:19
 -  ERS6 854d scratch dav2      Jul-21-1998   21:19
 -  TN3270(4PU)-CC3-TKR6        Jul-22-1998   22:19
 -  ERS6 840V4.1 APPN           Jul-24-1997   24:19
 -  Reg_854F_CC3                Aug-05-1998   05:19
 -  Reg_862B_RIP                Aug-11-1998   11:19
 -  ERS6 840V3.2 FTP/APPN/SNA   Oct-20-1997   20:19
 -  ERS6 841 K FTP/APPN/SNA     Oct-21-1997   21:19
 -  packet filter/2             Nov-18-1997   18:19
 -  ERS6 840L V2.2 FR APPN/IP   Dec-02-1998   02:19
 -  ERS6 841K SNA/APPN/IP       Dec-09-1997   09:19
 -  ERS6 841 P IP filtering     Dec-12-1997   12:19
 -  ERS6 841V1.1 IP filtering   Dec-12-1997   12:19
   End of output NBS4NMVT | CONF /LIST
```

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

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Activate a Configuration

Syntax

```
►►──CONF /ACTIVATE──/NAME="configname"──►◄
```

Note: *configname* must be between quotation marks.

This command performs all the processing tasks (see “Example of Activation”) to activate a new configuration whose name is *configname*. If the configuration name *configname* is not found, the string `THE CONFIGURATION IS NOT FOUND` is returned.

Note: Two cases:

- If the option **Link(s) through SNA** has been selected in the **NetView Link(s)/Reporting Customization** (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 to start another command.
- If the option **Link(s) through APPN** has been selected no answer is returned.

Example of Activation

To activate a new configuration, retrieve and unzip the configuration files and then activate the configuration from the NetView program.

Retrieving New Configuration Files

The name of the requested configuration is taken out of the CCM.HDR file listing all the available configurations.

The configuration is a set of files. The list of files name and contents is displayed in the following example. The current activated configuration is marked with an 'A'.

```
   Start of output NBS4NMVT | ACTIVATE /NAME

   Configuration name           MMM-DD-YYYY   HH:MM
-  BS5 840I FR sharing I/A      Jan-04-1999   04:19
-  ERS6 841P SNA/APPN/IP2/F     Jan-06-1998   06:19
-  ERS6 841P SNA/APPN/FRFH      Jan-07-1998   07:19
-  Reg_862B_OSPF                Feb-03-1999   03:19
-  DR_871A_ERIC                 Feb-12-1999   12:19
-  CCM basic operations         Feb-18-1999   18:19
A  871-E                        Mar-11-1999   11:19
-  ERS6-BS5 840F FR SHR OSPF    Mar-14-1997   14:19
-  ERS6 840 V4.3 IP/FR          May-18-1998   18:19
-  ERS6 854d scratch dav2       Jul-21-1998   21:19
-  TN3270(4PU)-CC3-TKR6         Jul-22-1998   22:19
-  ERS6 840V4.1 APPN            Jul-24-1997   24:19
-  Reg_854F_CC3                 Aug-05-1998   05:19
-  Reg_862B_RIP                 Aug-11-1998   11:19
-  ERS6 840V3.2 FTP/APPN/SNA    Oct-20-1997   20:19
-  ERS6 841 K FTP/APPN/SNA      Oct-21-1997   21:19
-  packet filter/2              Nov-18-1997   18:19
-  ERS6 840L V2.2 FR APPN/IP    Dec-02-1998   02:19
-  ERS6 841K SNA/APPN/IP        Dec-09-1997   09:19
-  ERS6 841 P IP filtering      Dec-12-1997   12:19
-  ERS6 841V1.1 IP filtering    Dec-12-1997   12:19
-  ERS6 2944 FR                 Dec-16-1997   16:19
-  ERS6: OSPF FR to BS5         Dec-19-1997   19:19

   End of output NBS4NMVT | ACTIVATE /NAME
```

Activation Steps View from the Netview Program

1. Issue the command **CONF /ACTIVATE /NAME="configname"**.
2. Check the response `THE CONFIGURATION <configname> IS BEING ACTIVATED` (see note).
3. Issue the command **NNP /STATUS** to get the NNP status until the status `NNP LINK WITH 3746 OPERATIONAL` is returned.

Note: This operation may take up to 20 minutes.

Chapter 5. 3746 APPN Network Management Commands

The network management is based upon the CCM one related to:

1. Ports
2. Stations
3. Non intermediate sessions
4. APPN specific:
    a. Network topology
    b. Network node informations
    c. Directory
    d. Connection network informations
    e. HPR connections

Network Management Commands

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List All Ports

Syntax

This command without any optional parameter returns the list of all ports the contents of which is similar to the one displayed by CCM.

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

Command Example

Port /list

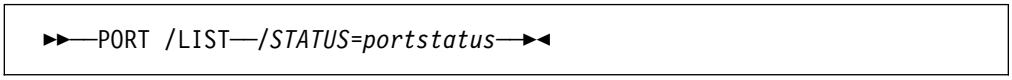
Command Result

```
Start of output NBS4NMVT | PORT /LIST

Port Name   Port# LS#    Status          DLC Name    Type
TRP2304A    2304  0      ACTIVATED       IBMTRNET    SAF
FR2432AP    2432  1      ACTIVATING      FR          SAF
TRP2144A    2144  1      ACTIVATED       IBMTRNET    SAF
FR2398      2398  2      ACTIVATING      FR          SAF
TRP2688A    2688  1      ACTIVATED       IBMTRNET    SAF
TIC2592A    2592  1      ACTIVATED       IBMTRNET    SAF
SDLC2385    2385  1      ACTIVATED       SDLC        LEASED
SDLC2376    2376  1      ACTIVATED       SDLC        LEASED
SDLC2370    2370  1      ACTIVATED       SDLC        LEASED
SDLC2369    2369  1      ACTIVATED       SDLC        LEASED
SDLC2182    2182  1      ACTIVATED       SDLC        LEASED
SDLC2181    2181  1      ACTIVATED       SDLC        LEASED
SDLC2368    2368  1      ACTIVATED       SDLC        LEASED
SDLC2187    2187  1      ACTIVATED       SDLC        LEASED
HLN2240I    2240  1      ACTIVATED       ESCON_IP    SAF
SDLC2374    2374  1      ACTIVATED       SDLC        LEASED
SDLC2186    2186  1      ACTIVATED       SDLC        LEASED
SDLC2185    2185  1      ACTIVATED       SDLC        LEASED
HLN2240A    2240  2      ACTIVATED       ESCON       SAF
CBS2080A    2080  1      ACTIVATED       IBMTRNET    SAF
TR2304I     2304  0      ACTIVATED       TR_IP       SAF
PN22402     2240  1      ACTIVATED       ESCON_IP    SAF
APFR2400    2400  0      ACTIVATING      FR          SAF
TRP2624A    2624  0      ACTIVATED       IBMTRNET    SAF
TRP2720A    2720  0      ACTIVATED       IBMTRNET    SAF
TRP2720I    2720  0      ACTIVATED       TR_IP       SAF
TRP2688I    2688  0      ACTIVATED       TR_IP       SAF
TRP2656A    2656  0      ACTIVATED       IBMTRNET    SAF
TRP2560A    2560  0      ACTIVATED       IBMTRNET    SAF
TRP2336A    2336  0      ACTIVATED       IBMTRNET    SAF
PN2240A     2240  1      ACTIVATED       ESCON       SAF
CBS2080I    2080  0      ACTIVATED       TR_IP       SAF
X25I2381    2381  0      NOT_ACTIVE      IP_X25      SAF
```

```
X25A2381    2381  0      NOT_ACTIVE       X25         SAF
X2397       2397  0      NOT_ACTIVE       X25         SAF
SDLC2180    2180  0      NOT_ACTIVE       SDLC        LEASED
SDLC2379    2379  0      NOT_ACTIVE       SDLC        LEASED
APFR2464    2464  0      NOT_ACTIVE       FR          SAF

End of output NBS4NMVT | 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 NBS4NMVT | PORT /LIST /STATUS=NOT_ACTIVE

Port Name   Port# LS#    Status           DLC Name    Type
X25I2381    2381  0      NOT_ACTIVE       IP_X25      SAF
X25A2381    2381  0      NOT_ACTIVE       X25         SAF
SDLC2180    2180  0      NOT_ACTIVE       SDLC        LEASED
SDLC2379    2379  0      NOT_ACTIVE       SDLC        LEASED
APFR2464    2464  0      NOT_ACTIVE       FR          SAF

End of output NBS4NMVT | PORT /LIST /STATUS=NOT_ACTIVE
```

List All Ports by DLC Name

Syntax

dlcname Possible values are:

tr_ip
fr_ip
fr
sdlc
ppp
ibmtrnet
escon
escon_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 Example

port /list /dlc=fr

Command Result

```
Start of output NBS4NMVT | PORT /LIST /DLC=FR
PORT /LIST /DLC=FR COMMAND EXECUTED
Port Name   Port# LS#    Status           DLC Name    Type
FR2432AP    2432  1      ACTIVATING       FR          SAF
FR2398      2398  2      ACTIVATING       FR          SAF
APFR2400    2400  0      ACTIVATING       FR          SAF
APFR2464    2464  0      NOT_ACTIVE       FR          SAF

End of output NBS4NMVT | PORT /LIST /DLC=FR
```

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

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 Example

port /list /status=not_active /dlc=sdlc

Command Result

```
Start of output NBS4NMVT | PORT /LIST /STATUS=NOT_ACTIVE /DLC=SDLC

Port Name   Port# LS#    Status           DLC Name    Type
SDLC2180    2180  0      NOT_ACTIVE       SDLC        LEASED
SDLC2379    2379  0      NOT_ACTIVE       SDLC        LEASED

End of output NBS4NMVT | PORT /LIST /STATUS=NOT_ACTIVE /DLC=
```

List All Ports by Wildcard Portname

Syntax

wildcard

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

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

xyz may be any character.

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

Command Example

port /list /name=S*

Command Result

```
Start of output NBS4NMVT | PORT /LIST /NAME=S*

Port Name   Port# LS#    Status           DLC Name    Type
SDLC2385    2385  1      ACTIVATED        SDLC        LEASED
SDLC2376    2376  1      ACTIVATED        SDLC        LEASED
SDLC2370    2370  1      ACTIVATED        SDLC        LEASED
SDLC2369    2369  1      ACTIVATED        SDLC        LEASED
SDLC2182    2182  1      ACTIVATED        SDLC        LEASED
SDLC2181    2181  1      ACTIVATED        SDLC        LEASED
SDLC2368    2368  1      ACTIVATED        SDLC        LEASED
SDLC2187    2187  1      ACTIVATED        SDLC        LEASED
SDLC2374    2374  1      ACTIVATED        SDLC        LEASED
SDLC2186    2186  1      ACTIVATED        SDLC        LEASED
SDLC2185    2185  1      ACTIVATED        SDLC        LEASED
SDLC2180    2180  0      NOT_ACTIVE       SDLC        LEASED
SDLC2379    2379  0      NOT_ACTIVE       SDLC        LEASED

End of output NBS4NMVT | PORT /LIST /NAME=S*
```

Display the Details View for a Given Port Name

Syntax

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

portname The *portname* may take one of the port name value returned in the list of ports of all ports.

This command returns the details view of the port name *portname*. If the port name *portname* is not found or omitted, the string `THE PORT <portname> IS UNKNOWN` is returned.

Command Example

port /details /name=sdlc2182

Command Result

```
Start of output NBS4NMVT | PORT /DETAILS /NAME=SDLC2182

Port Name                 SDLC2182
DLC Name                  SDLC
Port Type                 LEASED
SSID                      4
Port Number               2182
Port address              X'4C4943313100202020202020202020202020202020
                          20202020202020202020'
Max received BTU size     2058
Total connections         850
Inbound connections       0
Outbound connections      850
Link station role         PRIMARY
Transmit/Receive caps     TWS
Modem class               0
Target pacing count       3
Desired max send BTU size 2058
Adapter number            0
Transmit/Receive caps     IP
Service any               No
Effective capacity        19200 bits per second
Cost per connect time     0
Cost per byte             0
Propagation delay         9.22 milliseconds (telephone)
HPR Support               No
User defined parameter 1  0
User defined parameter 2  0
User defined parameter 3  0
Security                  Nonsecure

End of output NBS4NMVT | PORT /DETAILS /NAME=SDLC2182
```

Display the Details View for a Given Port Number

Syntax

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

portnum The *portnum* may take one of the port number value returned in the list of ports of all ports.

This command returns the details view of the port number *portnum*. If the port number *portnum* is not found or omitted, the string `THE PORT <portnum> IS UNKNOWN` is returned.

Command Example

port /details /number=2304

Command Result

```
Start of output NBS4NMVT │ PORT /DETAILS /NUMBER=2304

Port Name                 TRP2304A
DLC Name                  IBMTRNET
Port Type                 SAF
SSID                      6
Port Number               2304
Port address              X'400000502304080000000000000000000000000000000000
                          0000000000000000000'
Max received BTU size     8000
Total connections         1250
Inbound connections       0
Outbound connections      250
Link station role         NEGOTIABLE
Transmit/Receive caps     TWA
Modem class               0
Target pacing count       3
Desired max send BTU size 8000
Adapter number            0
DLC data type             TR
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

Port Name                 TR2304I
DLC Name                  TR_IP
Port Type                 SAF
```

```
SSID                      6
Port Number               2304
Port address              X'4000005023O4AA0000000000000000000000000000000
                          00000000000000000000'
Max received BTU size     2052
Total connections         1250
Inbound connections       0
Outbound connections      0
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 NBS4NMVT | PORT /DETAILS /NUMBER=2304
```

Activate All Ports

Syntax

This command requests the activation of all ports. *portname*. The completion of the command can be verified by issuing a **PORT /LIST** command

Command Example

port /act /all

Activate a Given Port by Name

Syntax

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

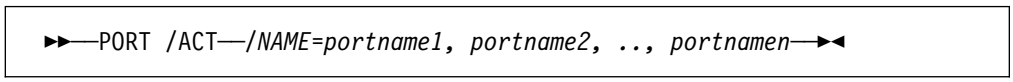
This command requests the activation of the port name *portname*. If the port name *portname* is not found or omitted, the string `THE PORT NAME NOT SPECIFIED` is returned.

Command Example

port /act /name=FR2398

Activate a List of Ports by Name

Syntax



portnamex This can take 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 name *portnamex* is not found or omitted, the string `PORT NAME <portnamex> UNKNOWN` is returned.

Command Example

port /act /name=TRP2304A, FR2398

Activate a Given Port by Number

Syntax

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

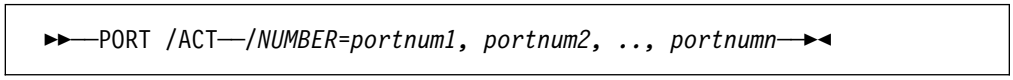
This command requests the activation of the ports number *portnum*. If the port number *portnum* is not found or omitted, the string `PORT NUMBER <portnum> UNKNOWN` is returned.

Command Example

port /act /number=2180

Activate a List of Ports By Number

Syntax



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

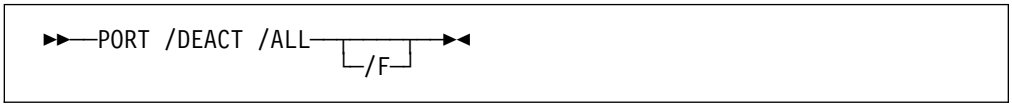
This command requests the activation of the list of ports with the numbers *portnum1, portnum2,.., portnumn*. If one of the port number *portnumx* is not found or omitted, the string `PORT NUMBER <portnumx> UNKNOWN` is returned.

Command Example

port /act /number=2304, 2380

Deactivate All Ports

Syntax



This command requests the deactivation of all ports. *portname*. The completion of the command can be verified by issuing a **PORT /LIST** command

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

Important Note

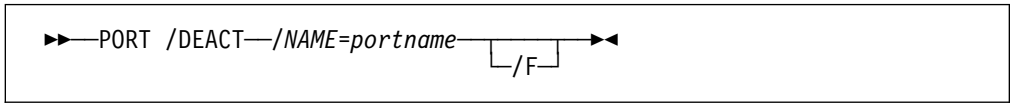
This command break the link between the network node processor and NetView. In order to reactivate this link the command **PORT /ACT /ALL** must be initiated from the service processor.

Command Example

port /deact /all

Deactivate a Given Port by Name

Syntax



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

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

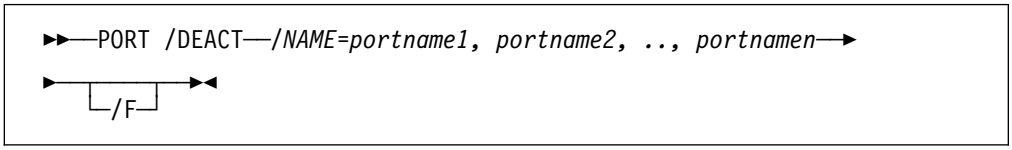
Note: The parameter *F* is added to submit the command in FORCE MODE.

Command Example

port /deact /name=TRP2304A

Deactivate a List of Ports by Name

Syntax



portnamex This can take 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.

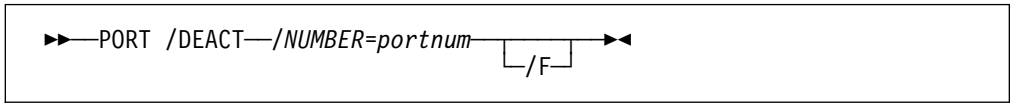
Note: The parameter *F* is added to submit the command in FORCE MODE.

Command Example

port /deact /name=TRP2304A, FR2432AP

Deactivate a Given Port by Number

Syntax



portnum This can take 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.

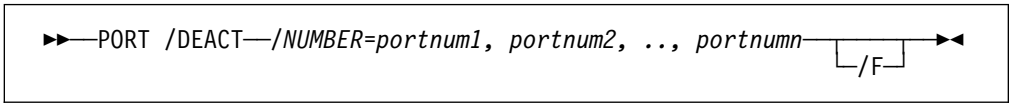
Note: The parameter *F* is added to submit the command in FORCE MODE.

Command Example

port /deact /number=2304

Deactivate a List of Ports by Number

Syntax



portnumx This can take one of the values returned in the list of ports 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: The parameter *F* is added to submit the command in FORCE MODE.

Command Example

port /deact /number=2304, 2380

List All Stations

Syntax

This command returns the list of all stations similar to the CCM one. 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

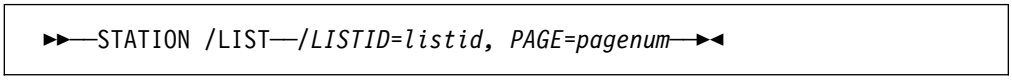
Station /List

Command Result

```
Start of output NBS4NMVT | 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=listid                                        PAGE 1 of 8

End of output NBS4NMVT | STATION /LIST
```

Retrieve a Page of All Stations List with Listid

Syntax



The *listid* is used to repeat the command **STATION /LIST** with the parameter **/LISTID=***listid*, **PAGE=** *pagenum*.

The Netview RUNCMD repetition is under the responsibility of the Netview operator or the automaton program. The last list returned contains the following last record.

Command Example

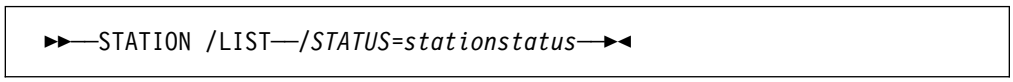
station /list /listid=8, page=8

Command Result

```
Start of output NBS4NMVT | 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

End of output NBS4NMVT | 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

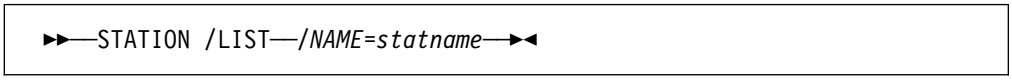
station /list /status=not_active

Command Result

```
Start of output NBS4NMVT | 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 NBS4NMVT | STATION /LIST /STATUS=NOT_ACTIVE
```

List Stations by Statname

Syntax



This command returns the list of the stations with the name *statname*.

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

Command Example

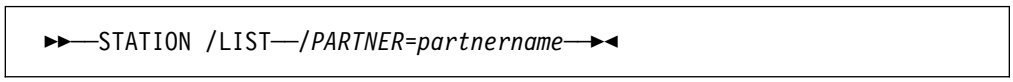
station /list /name=st239801

Command Result

```
Start of output NBS4NMVT | STATION /LIST /NAME=ST239801

LINK NAME #SE   TG  PARTNER NAME        TYPE STATE        ADDRESS
ST239801   0    0                     LRN NOT ACTIVE 00100000010464

End of output NBS4NMVT | STATION /LIST /NAME=ST239801
```

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

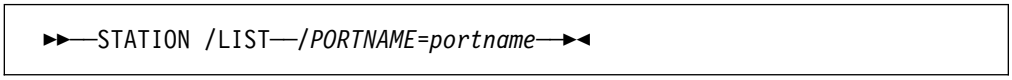
station /list /partnerame=syststap.sr3

Command Result

```
Start of output NBS4NMVT | 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 NBS4NMVT | 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

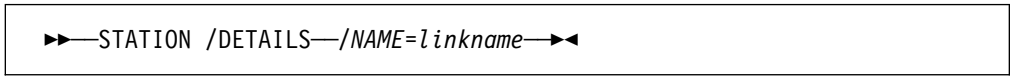
station /list /portname=SA2381

Command Result

```
Start of output NBS4NMVT | STATION /LIST /PORTNAME=SA2381

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

End of output NBS4NMVT | STATION /LIST /PORTNAME=SA2381
```

Display the Details View for a Given Station Name

Syntax



linkname This can take be one of the station name value 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 omitted the string `THE STATION <linkname> IS UNKNOWN` is returned.

Command Example

station /details /name=st239801

Command Result

```
Start of output NBS4NMVT | 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 ressource               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 NBS4NMVT | STATION /DETAILS /NAME=ST239801
```

Activate All Stations

Syntax

This command requests the activation of all stations.

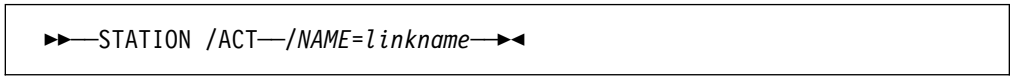
The completion of the command can be verified by issuing a **STATION /LIST** command

Command Example

station /act /all

Activate a Given Station by Name

Syntax



linkname This can take one of the station name value returned in the list of stations.

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

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

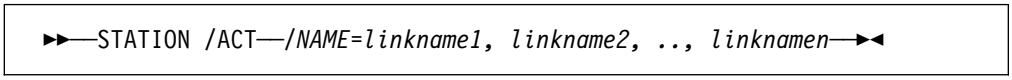
If the linkname name *linkname* is omitted the string `STATION NAME NOT SPECIFIED` is returned.

Command Example

station /act /name=

Activate a List of Stations by Name

Syntax



linknamex This can take 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 one of the linkname name *linknamex* is not found, the string `STATION <linknamex> IS UNKNOWN` is returned.

Command Example

station /act /name= , ,

Deactivate All Stations

Syntax

This command requests the deactivation of all stations.

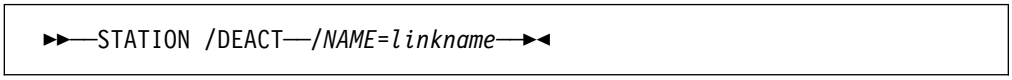
The completion of the command can be verified by issuing a **STATION /LIST** command

Command Example

station /deact /all

Deactivate a Given Station by Name

Syntax



linkname This can take one of the station name value returned in the list of stations.

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

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

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

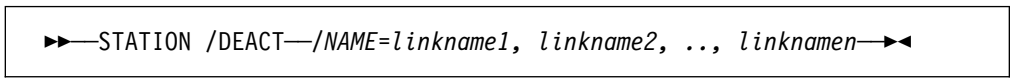
When the deactivation is complete, the string `STATION <linkname> IS DEACTIVATED` is returned.

Command Example

station /deact /name=

Deactivate a List of Stations by Name

Syntax



linknamex This can take 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 one of the linkname name *linknamex* is not found, the string `STATION <linknamex> IS UNKNOWN` is returned.

Command Example

station /deact /name= , ,

List All Sessions

Syntax

This command returns the list of all sessions similar to the one displayed by CCM.

If no session the string `NO SESSION` is returned.

Command Example

session /list

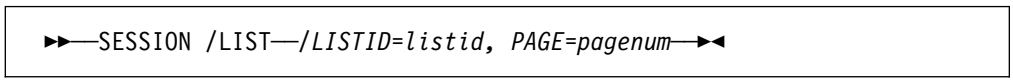
Command Result

```
Start of output NBS4NMVT | SESSION /LIST

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    39    512    X'EA5F3DE7945AF875'

End of output NBS4NMVT | SESSION /LIST
```

Note: The SessionID is given in alphabetical order.

Retrieve a Page of all Sessions List with Listid

Syntax



The *listid* is used to repeat the command **SESSION /LIST** with the parameter **/LISTID=***listid*, **PAGE=***pagenum* The Netview RUNCMD repetition is under the responsibility of the Netview operator or the automaton program. The last list returned contains the following last record.

Command Example

session /list /listid=8 , page=8

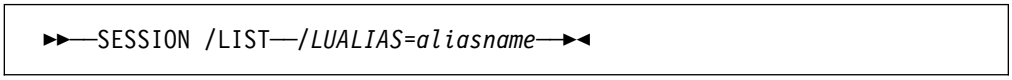
Command Result

```
Start of output NBS4NMVT | SESSION /LIST /LISTID=8, PAGE=8

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    39    512    X'EA5F3DE7945AF875'
LISTID=8                                                                        PAGE 8 of 8

End of output NBS4NMVT | SESSION /LIST /LISTID=8, PAGE=8
```

Note: The SessionID is given in alphabetical order.

List Sessions by LU Alias Name

Syntax



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

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

Command Example

session /list /lualias=BS5

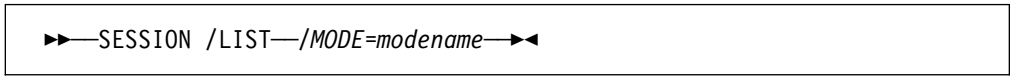
Command Result

```
Start of output NBS4NMVT | 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 NBS4NMVT | SESSION /LIST /LUALIAS=BS5
```

Note: The SessionID is given in alphabetical order.

List Sessions by Mode Name

Syntax



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

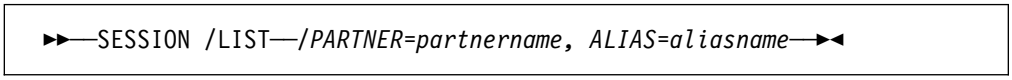
Command Result

```
Start of output NBS4NMVT | SESSION /LIST /MODE=CPSVMG

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 NBS4NMVT | SESSION /LIST /MODE=CPSVMG
```

Note: The SessionID is given in alphabetical order.

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=EI070422

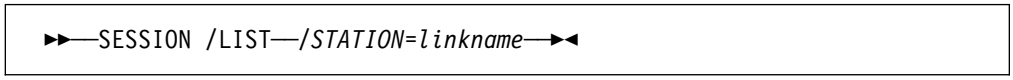
Command Result

```
Start of output NBS4NMVT | SESSION /LIST /PARTNER=SYSTST.BS6

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 NBS4NMVT | SESSION /LIST /PARTNER=SYSTST.BS6
```

Note: The SessionID is given in alphabetical order.

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=0A1A3E40

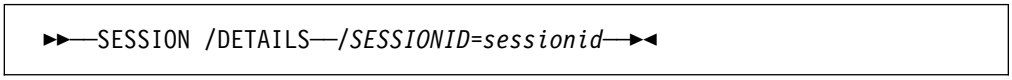
Command Result

```
Start of output NBS4NMVT | SESSION /LIST /STATION=0A1A3E40

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

End of output NBS4NMVT | SESSION /LIST /STATION=0A1A3E40
```

Note: The SessionID is given in alphabetical order.

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 sessionid could be entered in small or capital but without prefix X and quotes.

Command Result

```
Start of output NBS4NMVT | 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 NBS4NMVT | SESSION /DETAILS /SESSIONID=D49FA72E64938D51
```

Network Topology Display

Syntax

This command returns network node topology informations.

Command Example

appn /topology

Command Result

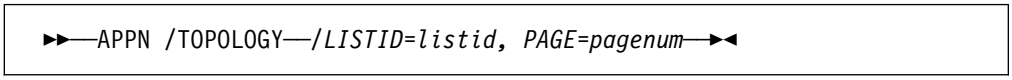
```
Start of output NBS4NMVT | APPN /TOPOLOGY

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
                                                                  PAGE 1 of 7

End of output NBS4NMVT | APPN /TOPOLOGY
```

Retrieve a Page of Network Topology Display with Listid

Syntax



The *listid* is used to repeat the command **APPN /TOPOLOGY** with the parameter **/LISTID=***listid*, **PAGE=***pagenum* The Netview RUNCMD repetition is under the responsibility of the Netview operator or the automaton program. The last list returned contains the following last record.

Command Example

appn /topology /listid=7 , page=7

Command Result

```
Start of output NBS4NMVT │ 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

End of output NBS4NMVT | APPN /TOPOLOGY /LISTID=7, PAGE=7
```

Node Information Display

Syntax

This command returns the network node informations.

Command Example

appn /netnode

Command Result

```
Start of output NBS4NMVT | APPN /NETNODE

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

End of output NBS4NMVT | APPN /NETNODE
```

Directory Information Display

Syntax

This command returns the directory informations.

Command Example

appn /dir

Command Result

```
Start of output NBS4NMVT | 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
   1.1> 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
   2.1> SYSTSTAP.L10REP02  SYSTSTAP.CDRM10            Cache
   2.2> SYSTSTAP.CNM10     SYSTSTAP.CDRM10            Cache

End of output NBS4NMVT | APPN /DIR
```

Connection Information Display

Syntax

This command returns the network connection informations.

Command Example

appn /connect

Command Result

```
Start of output NBS4NMVT | APPN /CONNECT

Connection network definitions  0

End of output NBS4NMVT | APPN /CONNECT
```

HPR Connection Information Display

Syntax

This command returns the HPR connection informations.

Command Example

appn /hpr

Command Result

```
Start of output NBS4NMVT | 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 NBS4NMVT | APPN /HPR
```

Appendix A. Netview Procedures (REXX)

The RUNCMD command support in the 3746 service processor allows the user to issue APPN network mangement commands towards 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 have been developped. Each procedure has a **mnemonic name** that indicates an **action** to be performed towards an **object** or a **set of objects** selected using a **criteria**.

The following three tables give the naming conventions for objects, actions and selection criteria, while the Table A-1 on page A-2 gives the commands-to-procedures relationships.

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

Action	Code
Activate	AC
Deactivate	DE
Details	DT
List	LI
Restart	RE
Start	S
Status	ST
Stop	P

Object Selection Criteria	Code
LU Alias Name	LU
Mode Name	MO
Name	NA
Partner	PA
Station	ST

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Table A-1 (Page 1 of 2). Command-to-Procedure Relationship

APPN Network Command	**Procedure name and *parameters***
NNP /STATUS	NNST *spname*
NNP /STARTCP	NNCPS *spname*
NNP /STOPCP	NNCPP *spname*
NNP /RSTARTCP	NNCPRE *spname*
NNP /ACTIVECP	NNCPAC *spname*
NNP /RESTART	NNRE *spname*
CONF /LIST	COLI *spname*
CONF /ACTIVATE	COAC *spname configname*
PORT /LIST PORT /LIST /STATUS=portstatus PORT /LIST /DLC=dlcname PORT /LIST /DLC=dlcname /STATUS=portstatus PORT /LIST /NAME=portname	POLI *spname* POLI *spname portstatus* POLI *spname dlcname* POLI *spname dlcname portstatus* POLI *spname portname* (With or without wildcard)
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]]*
PORT /DEACT /ALL PORT /DEACT /NAME=portname1[,portname2...][/F] PORT /DEACT /NUMBER=portnumber1&lbracket,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	STLI *spname* STLI *spname listid pagenum*
STATION /LIST /STATUS=stationstatus	STLIST *spname stationstatus*

Table A-1 (Page 2 of 2). Command-to-Procedure Relationship	
APPN Network Command	**Procedure name and *parameters***
STATION /LIST /NAME=linkname	STLINA *spname linkname*
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...]	STDE *spname all* STDE *spname linkname1 [linkname2 [linkname3]] [/F]*
SESSION /LIST SESSION /LIST /LISTID=listid, PAGE=pagenum	SELI *spname* SELI *spname listid pagenum*
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*
APPN /TOPOLOGY APPN /TOPOLOGY /LISTID=listid, PAGE=pagenum	APPN *spname t* APPN *spname t listid pagenum*
APPN /NETNODE	APPN *spname n*
APPN /DIR	APPN *spname d*
APPN /CONNET	APPN *spname c*
APPN /HPR	APPN *spname h*

Where to Find Procedures Using the RUNCMD

All the REXX clist are available in the EULRUSMP.ZIP file located in F:\SP_RW\.

Dowload the Procedures

1. From the netView console, using DCAF or JAVA™ remote console file transfer, download the EULRUSMP.ZIP file.
2. Unzip the file.

Configuring the Procedure

The *spname* used in the procedures must be changed according to your own 3746-9xx identification.

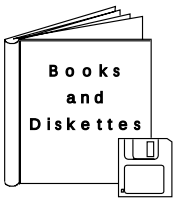
Note: The *spname* is a 3 or 4 3746-9xx identification to which is appended the string 'NMVT' to form what must be the PU name of the NetView service point. The validity checking of the spname is performed in a procedure named SP name validation (SPNVAL) which is invoked by every procedure (NNST, COLI, and so on). The contents of SPNVAL may be adapted to the user's need.

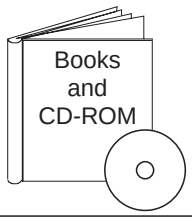
Appendix B. Bibliographies

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:



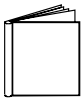


Finding Information

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



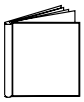
GA33-0092

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.

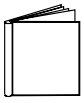


GA33-0180

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.

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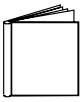
Table B-1 (Page 2 of 6). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900



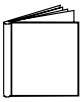
GA27-4235

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.



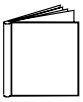
GA27-4236

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 desription and configuration.



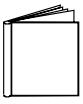
GA27-4237

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

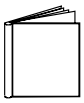
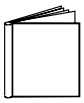
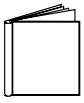
	GA27-4239	***IBM 3745 Communication Controller Models A²*** ***IBM 3746 Nways Multiprotocol Controller*** ***Models 900 and 950*** ***Planning Series:*** ***Management Planning*** Provides information for: • Overview for 3746 • 3746 APPN/HPR, IP router, and X.25 • NetView Performance Monitor (NPM), remote 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:*** ***Protocols Description*** 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

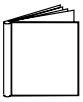
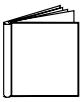
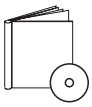
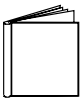
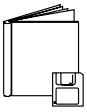
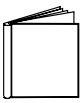
	GA33-0127	***IBM 3745 Communication Controller Models 210, 310, 410, and 610*** ***Preparing for Connection*** Helps for preparing the 3745 Models 210 to 610 cable installation. For 3745 Models A refer to the *Connection and Integration Guide*, SA33-0129.
Preparing for Operation		
	GA33-0400	***IBM 3745 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

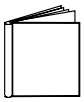
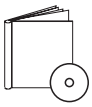
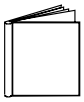
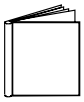
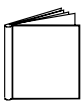
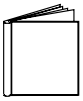
	SA33-0098	***IBM 3745 Communication Controller All Models***[4] ***Basic Operations Guide***[1] Provides instructions for daily routine operations on the 3745 Models 130 to 610.
	SA33-0177	***IBM 3745 Communication Controller Models A***[2] ***IBM 3746 Nways Multiprotocol Controller Model 900*** ***Basic 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, 170, and 17A

Table B-2. Additional Customer Documentation for the 3745 Models 130 to 17A

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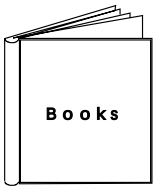
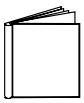


Finding Information

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

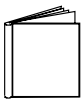
IBM 3745 Communication Controller Models 130, 150, 160, and 170

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

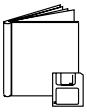
This customer documentation has the following format:

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.

Operating and Testing



SA33-0356

IBM 3746 Nways Multiprotocol Controller Model 950

User's Guide[1]

Explains ho 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	Worstation Identifier

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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 may 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 may 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.

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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 may be duplex or half-duplex over switched or nonswitched links. The configuration of the link connection may 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

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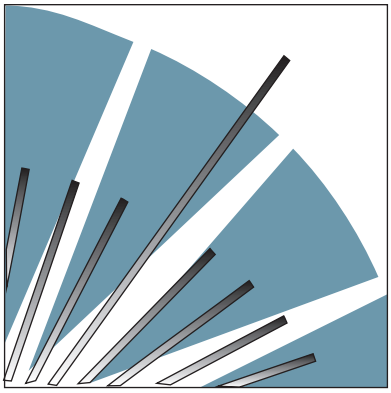

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