3745 Communication Controller Models A3746 Expansion Unit Model 9003746 Nways Multiprotocol Controller Model 950

Service Processor and Network Node Processor Service User's Guide





3745 Communication Controller Models A3746 Expansion Unit Model 9003746 Nways Multiprotocol Controller Model 950

_	_		
			/
		-	
		-	
		۲	

Service Processor and Network Node Processor Service User's Guide

Note!

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

First Edition (October 1998)

The information contained in this manual is subject to change from time to time. Any such changes will be reported in subsequent revisions.

Order publications through your IBM representative or the IBM branch office serving your locality. Publications are not stocked at the address given below.

A form for readers' comments appears at the back of this publication. If the form has been removed, address your comments to:

IBM France Centre d'Etudes et Recherches Service 0798 - BP 79 06610 La Gaude France

- FAX: 33 4 93 24 77 97
- IBM Internal Use: LGERCF at IBMFR
- Internet: lgercf@fr.ibm.com

When you send information to IBM, you grant IBM a non-exclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© Copyright International Business Machines Corporation 1998. All rights reserved.

Note to U.S. Government Users — Documentation related to restricted rights — Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract with IBM Corp.

Contents

Figures	V
Notices	. vii
European Union (EU) Statement	. vii
Year 2000 Statement	. vii
Electronic Emission Notices	. vii
Trademarks and Service Marks	X
Broduct Sofety Information	vi
Safety Notices	
Safety Notices for United Kingdom	· · ʌ
Service Inspection Procedures	xi
About this Book	. xiii
Who Should Use this Book	. xiii
How to Use this Book	. xiii
How this Book is Organized	. xiii
Where to Find More Information	. XIII
	. XIV
	. XIV
	. XIV
Chapter 1. Introducing the Service Processor and the Network Node	
Processor	. 1-1
General Information	. 1-2
Help for Using Your Service Processor	. 1-2
MOSS-E View Primary Window	. 1-2
Searching for Specific Information	. 1-4
Displaying Your Machine Status	. 1-5
3746-9x0 Status Display	. 1-5
3745 Status Display	. 1-6
Network Node Processor Status	. 1-7
Accessing the Functions	. 1-8
How to Get the Service Processor Maintenance Functions	. 1-8
How to Get the Network Node Processor Functions	1-10
How to Get the 3746-9x0 Controller Maintenance Functions	1-11
How to Get the 3745 Maintenance Controller Functions	1-13
Chapter 2. Maintaining the Code Loaded on the Service Processor	. 2-1
Maintenance Service Procedures	. 2-2
Displaying the Level of the Code Installed On the Hard Disk	. 2-2
Shutting Down the Service Processor	. 2-2
Restoring Data on the SP Hard Disk from a CD-ROM	. 2-3
Saving/Restoring Configuration on Diskette	. 2-4
Saving Configuration Parameters on the 374X Installation Parameters	
Diskette	. 2-5
Saving/Deleting Engineering Data	. 2-6
Installing a New Version of the LIC on a Service Processor	. 2-7
Changing the Active Code	. 2-8

Reporting Problem to RETAIN	. 2-9
Manually Reporting a Problem to RETAIN from a 3745 - XXA	. 2-9
Manually Reporting a Problem to RETAIN from a 3746-9x0	2-10
Handling Microcode Fixes on the Licensed Internal Code	2-11
Applying Microcode Fixes on the Licensed Internal Code	2-11
Removing Microcode Fixes on the Licensed Internal Code	2-14
3746-9x0 EEPROM Upgrade or Downgrade	2-15
Managing the Passwords	2-17
Changing the Service Processor and Controller Passwords	2-17
Changing the Password for DCAF	2-20
Restoring the Passwords to the Default Values	2-21
Chapter 3. Managing the Network Node Processor and the Control Point	3-1
Installing or Removing a Network Node Processor	. 3-2
Installing a New Version of the LIC on a Network Node Processor	. 3-3
Restoring the LIC on a Network Node Processor	. 3-4
Changing the Active LIC	. 3-5
Modifying IP Parameters	. 3-6
Managing the Control Point and the NNP	. 3-7
Importing a Configuration	. 3-8
Exporting a Configuration	. 3-9
Accessing a Network Node Processor	3-11
Accessing IP Commands from the MOSS-E	3-13
Appendix A. Bibliography	A-1
Customer Documentation for the 3746 Model 950	A-1
Service Documentation for the IBM 3746 Model 950	A-3
Customer Documentation for the 3745 (Models 210, 310, 410, 610, 21A, 31A,	
41A, and 61A), and 3746 (Model 900)	A-6
Additional Customer Documentation for the 3745 Models 130, 150, 160, 170,	
and 17A	A-10
Service Documentation for the IBM 3745 (Models 210, 21A, 310, 31A, 410,	
41A, 610, and 61A) and 3746 (Model 900)	A-11
Additional Service Documentation for the IBM 3745 Models 130, 150, 160,	
170, and 17A	A-15
Glossary	X-1
Index	X-7
IIIMVA	~ / /

Figures

1-1.	MOSS-E View Primary Window	1-2
1-2.	One 3746-950	1-2
1-3.	Help Pull Down Menu	1-3
1-4.	Program Pull Down Menu	1-3
1-5.	Information Pull Down Menu	1-3
1-6.	Services Pull Down Menu	1-4
1-7.	Search Window	1-4
1-8.	3746-9x0 Status Display	1-5
1-9.	3745 Model X1A Status Display	1-6
1-10.	3745 Model 17A Status Display	1-6
1-11.	Network Node Processor Status	1-7
1-12.	Service Processor Maintenance Functions	1-8
1-13.	Service Processor Configuration Management Functions	1-8
1-14.	Service Processor Problem Management Functions	1-9
1-15.	Service Processor Operation Management Functions	1-9
1-16.	Service Processor Change Management Functions	1-9
1-17.	Service Processor PE Functions	1-9
1-18.	3746-9x0 Maintenance Functions	1-10
1-19.	Network Node Processor Management Functions	1-10
1-20.	3746-9x0 Maintenance Controller Functions	1-11
1-21.	3746-9x0 Change Management Functions	1-11
1-22.	3746-9x0 Functions to Use Under PE Guidance	1-11
1-23.	3746-9x0 Problem Management Functions	1-12
1-24.	3746-9x0 Operation Management Functions	1-12
1-25.	MAE Management Functions	1-12
1-26.	Network Node Processor Management Functions	1-12
1-27.	3746-9x0 Configuration Management Functions	1-12
1-28.	3746-9x0 Performance Management Functions	1-12
1-29.	3745 Menu	1-13
1-30.	Problem Management	1-13
1-31.	Operation Management	1-13
1-32.	MOSS Primary Menu	1-13
2-1.	SP Configuration Management Menu	2-3
2-2.	Service Processor Menu	2-3
2-3.	Operation Management Service Processor Menu	2-4
2-4.	Disk and Databases Management	2-4
2-5.	Controller Installation	2-5
2-6.	Manage Engineering Data Menu	2-6
2-7.	Service Processor Change Management Menu	2-8
2-8.	Service Processor Menu	2-8
2-9.	Link to RETAIN	2-9
2-10.	Manage Microcode Fixes	2-12
2-11.	Manage Microcode Fixes	2-12
2-12.	Manage Microcode Fixes	2-13
2-13.	Example of An EEPROM Upgrade Window	2-16
2-14.	Management Password	2-17
2-15.	MOSS-E View Password	2-18
2-16.	Management Password	2-18
2-17.	CCM/Telnet Management Password	2-19
2-18.	DCAF Target	2-20

2-19.	DCAF Password
3-1.	NNP-A Licensed Internal Code Management
3-2.	Installing or Removing a NNP-A 3-2
3-3.	SP Change Management Menu 3-4
3-4.	Service Processor Menu 3-4
3-5.	SP Change Management Menu 3-5
3-6.	Service Processor Menu 3-5
3-7.	NNP Licensed Internal Code Management 3-6
3-8.	Modifying IP Parameters
3-9.	IP Parameters
3-10.	Manage Control Point on NNPs 3-7
3-11.	Managing the Control Point and NNPs
3-12.	CCM
3-13.	Importing a Configuration
3-14.	ССМ
3-15.	Selecting a Configuration 3-9
3-16.	Exporting a Configuration 3-10
3-17.	Accessing a NNP 3-11
3-18.	Connecting to a NNP 3-11
3-19.	NNP Functions
3-20.	Terminating a Session
3-21.	Accessing IP Commands 3-13
3-22.	Telnet Access

Notices

References in this publication to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any of IBM's intellectual property rights may be used instead of the IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, is the user's responsibility.

IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the IBM Director of Licensing, IBM Corporation, 500 Columbus Avenue, Thornwood, New York 10594, U.S.A.

European Union (EU) Statement

This product is in conformity with the protection requirements of EU Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM can not accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

Year 2000 Statement

This product is Year 2000 ready. When used in accordance with its associated documentation, it is capable of correctly processing, providing, and/or receiving date data within and between the 20th and 21st centuries, provided all other products (for example, software, hardware, and firmware) used with the product properly exchange accurate date data with it.

For more information, refer to:

http://www.ibm.com/year2000

Electronic Emission Notices

Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Industry Canada Compliance Statement

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis de conformité aux normes d'Industrie Canada

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Japanese Voluntary Control Council For Interference (VCCI) Statement

This equipment is in the 1st Class category (information equipment to be used in commercial and/or industrial areas) and conforms to the standards set by the Voluntary Control Council for Interference by Information Technology Equipment aimed at preventing radio interference in commercial and industrial areas.

Consequently, when used in a residential area or in an adjacent area thereto, radio interference may be caused to radios and TV receivers, and so on.

Read the instructions for correct handling.

Power Line Harmonics (JEIDA) Statement

The guidelines of power line harmonics required by JEIDA are satisfied.

Korean Communications Statement

Please note that this device has been approved for business purpose with regard to electromagnetic interference. If you find this is not suitable for your use, you may exchange it for a non-business one.

New Zealand Radiocommunications (Radio) Regulations

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Taiwanese Class A Warning Statement

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user will be required to take adequate measures.

警告使用者: 這是甲類的資訊產品,在 居住的環境中使用時,可 能會造成射頻干擾,在這 種情況下,使用者會被要 求採取某些適當的對策。

Trademarks and Service Marks

The following terms, denoted by an asterisk (*), used in this publication, are trademarks or service marks of IBM Corporation in the United States or other countries:

APPN	OS/2	RETAIN	XGA
ESCON	NetView	Storyboard	
FFST/2	Personal System/2	S/370	
IBM	PS/2	VTAM	

The following terms, denoted by a double asterisk (**), used in this publication, are trademarks of other companies:

SX (Intel Corporation) Pentium (Intel Corporation)

Product Safety Information

General Safety

This product meets IBM safety standards.

Safety Notices

For Safety Notices refer to IBM 3745 Communication Controller All Models, IBM 3746 Expansion Unit Model 900, IBM 3746 Nways Multiprotocol Controller Model 950, Safety Information, GA33-0400

Safety Notices for United Kingdom

- The IBM 3746 Expansion Unit Model 900 and IBM 3746 Nways Multiprotocol Controller Model 950 are manufactured according to the International Safety Standard EN 60950 and as such are approved in the UK under the General Approval Number NS/G/1234/J/100003 for indirect connection to the public telecommunication network.
- 2. The network adapter interfaces housed within the IBM 3746 Expansion Unit Model 900 and IBM 3746 Nways Multiprotocol Controller Model 950 are approved separately, each one having its own independent approval number. These interface adapters, supplied by IBM, do not use or contain excessive voltages. An excessive voltage is one that exceeds 42.4 V peak ac or 60 V dc. They interface with the IBM 3746 Expansion Unit Model 900 and IBM 3746 Nways Multiprotocol Controller Model 950 using Safety Extra Low Voltages (SELV) only. In order to maintain the separate (independent) approval of the IBM adapters, it is essential that other optional cards, not supplied by IBM, do not use mains voltages or any other excessive voltages. Seek advice from a competent engineer before installing other adapters not supplied by IBM.

Service Inspection Procedures

The Service Inspection Procedures help service personnel check whether the 3745/3746 conforms to IBM safety criteria. They have to be used each time the 3745/3746 safety is suspected. The *Service Inspection Procedures* section is located at the beginning of the:

- 3745 Communication Controller Models 210 to 61A Maintenance Information Procedures, SY33-2054
- 3745 Communication Controller Models 130 to 17A Maintenance Information Procedures, SY33-2070
- 3746-950 Service Guide, SY33-2108.
- 3746-900 Service Guide, SY33-2116.

The 3745/3746 areas and functions checked through service inspection procedures are:

- 1. External covers
- 2. Safety labels

- 3. Safety covers and shields
- 4. Grounding
- 5. Circuit breaker and protector rating
- 6. Input power voltage
- 7. Test of emergency power OFF/control power switch.
- 8. Power-ON indicator

About this Book

Who Should Use this Book

The IBM personnel using this book should be:

- Trained to service the Service Processor, IBM 3745 Communication Controller, 3746-900, and 3746-950.
- Familiar with the configuration of the 3745 Communication Controller, 3746-900, and 3746-950.
- Familiar with the SP and NNP service documentation.

How to Use this Book

This book provides procedures for installing and maintaining the microcode installed on a service processor and a network node processor. To ensure the efficency of the procedures:

- · Read the instructions carefully before attempting to do them,
- Complete each step before going to the next one,
- Go through the chapters sequentially.

How this Book is Organized

Chapter 1	Introduces the service processor configuration and gives general information to access the information.	
Chapter 2	Presents the software maintenance procedures for the service processor.	
Chapter 3	Presents the software maintenance procedures for the network node processor.	
Appendix A Service and customer documentation bibliography.		
A list of abbreviations, and an index are provided at the end of this book.		

Where to Find More Information

For a complete list of the Service Processor, 3745, 3746-900, and 3746-950 customer and service information manuals, see at the end of this manual. In this manual, references are made to the following publications:

Multiaccess Enclosure Installation and Maintenance Guide, SY33-2124

3746-950 Installation Guide, SY33-2107

3746-900 Installation Guide, SY33-2114

3745 Communication Controller Models 210 to 61A Maintenance Information Procedures, SY33-2054

3745 Communication Controller Models 130 to 17A Maintenance Information Procedures, SY33-2070

3746-950 Service Guide, SY33-2108

3746-900 Service Guide, SY33-2116

3745 Communication Controller Models A and 3746 Models 900 and 950: Planning Guide, GA33-0457

World Wide Web

You can access the latest news and information about IBM network products, customer service and support, and microcode upgrades via the Internet at the URL: http://www.lagaude.ibm.com/3746pe

Online Documentation from CD-ROM

Starting at EC F12380 (and above), with the service processor is shipped a CD which contains the LIC and a copy of the 3746 web site. You will find from this web page, marketing, PE, and all information about CCP products.

To access this page:

- 1. Insert the CD into the CD disk drive of the SP.
- 2. From the MOSS-E primary menu, click on Information
- 3. Double click on CD-ROM documentation
- 4. Then if you want to display the CCP documentation, click on Documentation
- 5. Click on La Gaude Information Development: Communication Controllers Information

Note: To have the very last version of the web site, connect to Internet at: http://w3.lagaude.ibm.com/ccp/3746.htm

Service Personnel Definitions

See the *3745* Communication Controller Models *210* to *61A* Maintenance Information Procedures, SY33-2054, *3745* Communication Controller Models *130* to *17A* Maintenance Information Procedures, SY33-2070, or the *3746-950* Service Guide, SY33-2108.

Chapter 1. Introducing the Service Processor and the Network Node Processor

Help for Using Your Service Processor1-2MOSS-E View Primary Window1-2Searching for Specific Information1-4Displaying Your Machine Status1-53746-9x0 Status Display1-53745 Status Display1-6Network Node Processor Status1-7Accessing the Functions1-8How to Get the Service Processor Maintenance Functions1-8How to Get the Network Node Processor Functions1-10How to Get the 3746-9x0 Controller Maintenance Functions1-11How to Get the 3745 Maintenance Controller Functions1-13	Gene	ral Information	1-2
MOSS-E View Primary Window1-2Searching for Specific Information1-4Displaying Your Machine Status1-53746-9x0 Status Display1-53745 Status Display1-6Network Node Processor Status1-7Accessing the Functions1-8How to Get the Service Processor Maintenance Functions1-8How to Get the Network Node Processor Functions1-10How to Get the 3746-9x0 Controller Maintenance Functions1-11How to Get the 3745 Maintenance Controller Functions1-13	He	Ip for Using Your Service Processor	1-2
Searching for Specific Information1-4Displaying Your Machine Status1-53746-9x0 Status Display1-53745 Status Display1-6Network Node Processor Status1-7Accessing the Functions1-8How to Get the Service Processor Maintenance Functions1-8How to Get the Network Node Processor Functions1-10How to Get the 3746-9x0 Controller Maintenance Functions1-11How to Get the 3745 Maintenance Controller Functions1-13	MC	DSS-E View Primary Window	1-2
Displaying Your Machine Status 1-5 3746-9x0 Status Display 1-5 3745 Status Display 1-6 Network Node Processor Status 1-7 Accessing the Functions 1-8 How to Get the Service Processor Maintenance Functions 1-8 How to Get the Network Node Processor Functions 1-10 How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13	Se	arching for Specific Information	1-4
3746-9x0 Status Display 1-5 3745 Status Display 1-6 Network Node Processor Status 1-7 Accessing the Functions 1-8 How to Get the Service Processor Maintenance Functions 1-8 How to Get the Network Node Processor Functions 1-10 How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13	Dis	splaying Your Machine Status	1-5
3745 Status Display 1-6 Network Node Processor Status 1-7 Accessing the Functions 1-8 How to Get the Service Processor Maintenance Functions 1-8 How to Get the Network Node Processor Functions 1-10 How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13		3746-9x0 Status Display	1-5
Network Node Processor Status 1-7 Accessing the Functions 1-8 How to Get the Service Processor Maintenance Functions 1-8 How to Get the Network Node Processor Functions 1-10 How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13		3745 Status Display	1-6
Accessing the Functions 1-8 How to Get the Service Processor Maintenance Functions 1-8 How to Get the Network Node Processor Functions 1-10 How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13		Network Node Processor Status	1-7
How to Get the Service Processor Maintenance Functions 1-8 How to Get the Network Node Processor Functions 1-10 How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13	Ac	cessing the Functions	1-8
How to Get the Network Node Processor Functions 1-10 How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13		How to Get the Service Processor Maintenance Functions	1-8
How to Get the 3746-9x0 Controller Maintenance Functions 1-11 How to Get the 3745 Maintenance Controller Functions 1-13		How to Get the Network Node Processor Functions	-10
How to Get the 3745 Maintenance Controller Functions		How to Get the 3746-9x0 Controller Maintenance Functions 1	-11
		How to Get the 3745 Maintenance Controller Functions	-13

General Information

Help for Using Your Service Processor

There are three ways to access the Help information by clicking on:

- 1. The **Help** option of the **title bar** of the screen (example: see Figure 1-3 on page 1-3).
- 2. The Help push button (example: see Figure 1-7 on page 1-4).
- 3. An **input field** then pressing **F1** (example: input field "Search For" in Figure 1-7 on page 1-4).

MOSS-E View Primary Window

Figure 1-1 shows the configuration of two communication controllers:

- 1. A 3745 X1A with a 3746-900 frame and a NNP installed
- 2. A 3745 X1A.

Figure 1-2 represents the configuration of one 3746-950 with a network node processor installed.

From these screens, clicking on Program , Information, or Help, you will get all the information to manage your controller. The other options will help you find specific information (see Figure 1-4 on page 1-3, Figure 1-5 on page 1-3, and Figure 1-3 on page 1-3).



Figure 1-1. MOSS-E View Primary Window



Figure 1-2. One 3746-950

MOSS-E View		• 🗆
Program Window Information	Help	
Logged in service processor	Help for help	
BS12 - 810K	Extended help	
	Keys help	
	Help Index	
	Your comments.	
·	About	
Service Processor: PU		
Service Proces	sor	

Figure 1-3. Help Pull Down Menu



Figure 1-4. Program Pull Down Menu



Figure 1-5. Information Pull Down Menu

Searching for Specific Information

- 1. From the Help pull down menu (see Figure 1-3 on page 1-3), select **Help for Help.**
- 2. Click on Services on the title bar of the MOSS-E help panel.
- 3. Click on Search on the title bar of the search window
- 4. Enter your search **argument** to get all the occurrences in all the available online information.

z MOSSE Lielp <mark>Services</mark> Option	ns <u>H</u> elp	ANAWAYAN AMAMAN	
Search Print	Ctrl+S	si ing.	Ø
<u>N</u> ew window	Ctrl+N		
С <u>о</u> ру	Ctrl+Ins	- 5	
Copy to file	Ctrl+F	ow size	
Append to file	Ctrl+A	a get help for	
field or pulldown			
o Displaying the help contents			
o Displaying the help index			
o Using the help search facility			
Previous Search	n <u>P</u> rint	Index	

Figure 1-6. Services Pull Down Menu

Search for :	
This section	∭ Index
Marked sections) Marked <u>l</u> ibraries
All sections	All libraries

Figure 1-7. Search Window

Displaying Your Machine Status

The first indication of the **machine status** is given by the **color** of the **3745 and the 3746-9x0 object icons**. To obtain the meaning of the colors do the following:

- 1. From the **Information pull down menu** click on **Legend** (see Figure 1-5 on page 1-3).
- 2. The meaning of the colors is now displayed in the MOSS-E legend window. **Scroll forward** to see the complete list of the colors.

At any time during IML, or while the system is operational you can display your machine status:

- 1. Click on the 3746-9x0 or 3745 object icon using the right button of the mouse
- 2. Click on **status** pulldown option, the following screens are displayed (see Figure 1-8 for the 3746-9x0 and Figure 1-9 on page 1-6 or Figure 1-10 on page 1-6 for the 3745 X1A or 17A).

3746-9x0 Status Display

≚ BS12 - 810K - 3	1746-9x0 Status
- Unavailable	Status - CDF-E Updated - Operational - IML Complete - 4 - 3 00000000 - 2 - 1 - Recognized
Power Control	Remote
Power Allegiances	3745
Power State	ON
IML Type	Power ON without diags
OK	Help

Figure 1-8. 3746-9x0 Status Display

3745 Status Display

👱 SAB-SR3 - 3745 Controlle	ar Status	
Unavailable	tus CCU A	Status CCU B
Adapters	- IPL Complete	- IPL Complete
	- 4	- 4
	- 3 CP Name	- 3 CP Name
	- 2 RRAB2NA	- 2
	- 1 CCU Status	- 1 CCU Status
	Loaded	Under IPL
	· · · · · · · · · · · · · · · · · · ·	
Power Control	Local	
Service Mode	Customer	
Function	MOSS IML	
CCU Mode	Twin-Dual	
IPL Mode	Normal mode	
	<u>OK</u> <u>H</u> elp	

Figure 1-9. 3745 Model X1A Status Display

≥ BS11 - 3745 (⊤Unavailable	Controller Status
Adapters	- IPL Complete
	- 4
	- 3 CP Name
	- 2
	- 1 CCU Status
Power Control	Local
Service Mode	By-pass diagnostics
Function	MOSS IML
IPL Mode	Normal mode
	<u>)K</u> <u>H</u> etp

Figure 1-10. 3745 Model 17A Status Display

Network Node Processor Status

The color of the network node processor icon gives the status of the nnp-a. This information can be obtained on-line from the information pulldown menu when selecting 'Legend'. Top to bottom the icon's color is: transparent, grey, blue, purple, white, and green.

× MOSSE Services	E Help Window Options <u>H</u> elp	۵
B Legend	0	з¥,
NNPA Net	twork Node Processor A installed.	
IIEA	There is no connection between the service processor and the network node processor.	
	The connection between the service procssor and the network node processor is OK. The network node processor is in a standby state: the control point must be started.	
	The control point is waiting for communication with the communication with the 3746 network node.	
NNEA	The control point is being started and the configuration is being activated.	
	The control point has been successfully started and the configuration has been activated.	
Previous	Search Print Index	

Figure 1-11. Network Node Processor Status

Accessing the Functions

- Note -

All maintenance functions are identified by an **(M)** preceding the text (example: see Figure 1-13 function "(M) Manage 3745/3746-900 Installation/Removal").

How to Get the Service Processor Maintenance Functions

- 1. Enter the **Service Processor Maintenance** password on the signon menu (default password: *IBM3745* or ask the customer if a specific password has been defined).
- 2. Double click on the **Service Processor object icon**, you will get the following screen:

E Euni	ervice Processor Menu 🔹 🗆 ction Options Help
<u>£</u>	Configuration Management
£	Problem Management
÷	Operation Management
۴	Change Management
۴ <u></u>	Manage Ethernet Bridge
t	Functions to Use Under PE Guidance

Figure 1-12. Service Processor Maintenance Functions

3. Click on Configuration Management, Operation Management, Problem Management, or Change Management to get the list of all the functions available.

Service Processor Menu	
Configuration Management	
- 🗀 SP Customization	
– 🗀 Customize DCAF Target Settings	
- 🗀 Install 3746 and NNP LIC on SP hard disk	
📙 🦳 (M) Manage 3745/3746-9x0 Installation/Removal ,	

Figure 1-13. Service Processor Configuration Management Functions

Service Processor Menu 🔹 🗖
<u>Function</u> Options Help
Problem Management
– 🗀 Display Alarms
– 🗀 (M) Manage Alarms/Errors/Events (SRCs)
– 🗀 Transfer NCP Dump
(M) Connect/Disconnect 3746-9x0 from MOSS-E

Figure 1-14. Service Processor Problem Management Functions

Service Processor Menu	
Correction Management	
– 🗀 Manage Disks and Databases	
– 🗀 Manage Passwords	
– 🗀 (M) Display Files	
– 🗀 (M) Manage Engineering Data	
Capture and save screens	

Figure 1-15. Service Processor Operation Management Functions

Service Processor Menu Function Options Help	
Change Management	
- 🗀 Switch to non-active version	
\vdash 🗀 Update SP (& NNP) LIC on non-active version	
\vdash 🗀 Restore SP (& NNP) LIC on non-active versio	n
– 🗀 Manage Microcode Changes	
- Change Active Code	
(M) Manage Microcode Fixes	*

Figure 1-16. Service Processor Change Management Functions



Figure 1-17. Service Processor PE Functions

How to Get the Network Node Processor Functions

- 1. Enter the **Service Processor Maintenance** password on the signon menu (default password: *IBM3745* or ask the customer if a specific password has been defined).
- 2. Double click on the **3746-900 or 3746-950 object icon**, you will get the following screen:

BS12 8101 + Umod/3746-9x0/Menu Function Options Help	• 🗆
Configuration Management	
🕆 Problem Management	
Coperation Management	
🕆 Network Node Processor (NNP) Manageme	ent 🛛
🕆 MultiAccess Enclosure (MAE) Managemen	t 📗
🕆 Change Management	
Performance Management	
🕆 Functions to Use Under PE Guidance Onl	y v

Figure 1-18. 3746-9x0 Maintenance Functions

3. Click on Network Node Processor (NNP) Management.

E Menu Z E	
<u>Function Options Help</u>	
C Network Node Processor (NNP) Management	
– 🗀 (M) Install/Remove/Change/Restore LIC/NNP	
– 🗀 Manage Control Points on NNPs	
– 🗀 CCM - Controller Configuration and Management	////.
– 🗀 (M) Connect To an NNP	
L Commands	

Figure 1-19. Network Node Processor Management Functions

How to Get the 3746-9x0 Controller Maintenance Functions

- 1. Enter the **Controller Maintenance** password on the signon menu (default password: *IBM3745* or ask the customer if a specific password has been defined).
- 2. Double click on the **Controller 3746-9x0** object icon you will get the following screen:

BS12 8101 + Umod/3746-9x0/Menu Function Options Help	
Configuration Management	
🕆 Problem Management	
🕆 Operation Management	
🕆 Network Node Processor (NNP) Management	
+ MultiAccess Enclosure (MAE) Management	
🕆 Change Management	
Performance Management	
Functions to Use Under PE Guidance Only	

Figure 1-20. 3746-9x0 Maintenance Controller Functions

3. Click on Configuration Management, Problem Management, Operation Management, Change Management, Performance Management, or Functions to Use Under PE Guidance for details of the functions (see the following screens).

BS12 - 810K/3746-9x0/Menu •	Ø
Eunction Options Help	
Change Management	ħ
- 🗀 Change Active Code	
(M) Upgrade/Downgrade EEPROM Code	<u> </u>

Figure 1-21. 3746-9x0 Change Management Functions

BS12 - 810K/3746-9x0/Menu	۵
<u>Function</u> Options Help	
🗀 Functions to Use Under PE Guidance Only	ħ
– 🗀 (M) Trace User and System Data	
L C (M) Manage Dumps	

Figure 1-22. 3746-9x0 Functions to Use Under PE Guidance

BS12 8101 + Umod/3746-9x0/Menu Function Options Help	• □
Problem Management	
– 🗀 Display Alarms	
– 🗀 (M) Manage Alarms/Errors/Events (SF	₹Cs]
– 🗀 Display Token-Ring Interface	
- 🗀 Display FR/X.25/PPP/ISDN Interface	•
– 🗀 Display Line Interface	
– 🗀 (M) Perform Maintenance	
– 🗀 Change Resource Status	
- C (M) Set 3746-9x0 Online/Offline Opt	ion
– 🗀 (M) Perform Offline Diagnostics	
– 🗀 (M) Perform Specific Diagnostics	
- C (M) Trace Adapters	
- C Report Problem using Remote Support	: Fa
└── Perform Port Swap	¥

Figure 1-23. 3746-9x0 Problem Management Functions

BS12 - 810K/3746-9x0/Menu	۵
<u>Function</u> <u>Options</u> <u>Help</u>	
Coperation Management	
– 🗀 Perform General IML	
🖵 🦳 Manage MOSS-E/3746-9x0 Power Dependency	¥

Figure 1-24. 3746-9x0 Operation Management Functions



Figure 1-25. MAE Management Functions

🗄 Menu 🛛 🖾	
<u>Function Options Help</u>	
C Network Node Processor (NNP) Management	* /
– 🗀 (M) Install/Remove/Change/Restore LIC/NNP	
– 🗀 Manage Control Points on NNPs	
- CCM - Controller Configuration and Management	
– 🗀 (M) Connect To an NNP	
L Commands	

Figure 1-26. Network Node Processor Management Functions

BS12 - 810K/3746-9x0/Menu • 🗆
runction Uptions rieup
Configuration Management
- Cm (M) Add/Retrieve Resources in Concurrent Mode
- C (M) Remove Resources in Concurrent Mode
– 🗀 (M) Replace Resources in Concurrent Mode
– 🗀 Display/Update Active Configuration (CDF-E)
– 🗀 Display Reference CDF-E
Compare Reference CDF-E with Active CDF-E
- 🗀 Save Active CDF-E as Reference CDF-E
– 🗀 Manage ESCON Processors
– 🗀 Define Backup CLP
– 🗀 Copy Reference CDF-E on Diskette
- 🗀 Restore Reference CDF-E from Diskette
Create Flat Active CDF-E on Disk

Figure 1-27. 3746-9x0 Configuration Management Functions

🗄 BS12 - 810K/3746-9x0/Menu 🔹 🗉	
<u>Function</u> <u>Options</u> <u>Help</u>	
Performance Management	
🖵 🗀 Perform Processor Statistics 🖉 🖌	

Figure 1-28. 3746-9x0 Performance Management Functions

How to Get the 3745 Maintenance Controller Functions

- 1. Enter the **Controller Maintenance** password on the signon menu (default password: *IBM3745* or ask the customer if a specific password has been defined).
- 2. Double click on the **3745 Controller** object icon you will get the following screen:



Figure 1-29. 3745 Menu

3. Click on **Problem Management**, or **Operation Management** to get the details of the functions.

La Gaude - 3745 Menu and a Carlor Construction Construction Help	La Gaude - 3745 Menu • 🗆 Function Options Help
MOSS Console	MOSS Console
C Problem Management	🕆 Problem Management
— 🗀 Display Alarms	C Operation Management
– 🗀 (M) Manage Alarms/Errors/Events (SRCs)	– 🗀 (M) Set 3745 Diskette Mode On/Off
🖵 🗀 Report Problem using Remote Support Facility	🖵 🦳 (M) Locate Bypass Card Position
🕂 Operation Management	
<u>I</u>	Figure 1-31. Operation Management

Figure 1-30. Problem Management

4. Double click on **MOSS Console**, you have the **Function Selection Rules** displayed. You can now enter the MOSS commands as usual.

*								6 IEI
	COMMC CCU-A READY	TRL ID: La G	iaude MOSS-A	LONE	745-61A	SERIAL	NUMBER:	1234567
	CCU-B READY		MOSS-A	LONE				
		SELECT ONE 0	FUN	CTIONSELEC	ION RULES	. E KEA	V2/V3/93	v7:39
	- TO - TO - ONC A F	SELECT ONE O SELECT A FUN E YOU HAVE S UNCTION FROM	CTION, ENTER THEN ELECTED A FU THE OTHER	ITS 3-CHARI PRESS ENTER NCTION FROM	CTER NAME (ABBREUIAT ONE MENU,	ED "ENTR") You may seli	ЕСТ	
	- то	END THE FUNC	TION ON SCRE	EN, PRESS F	L			
	- то	RETURN TO TH	E PENDING FU	NCTION, PRE	SS F2			
	- <u>TO</u>	LOG OFF, ENT —	ER OFF THEN	PRESS ENTR				
	F1:EN KEYBO	D F2:MENU2 ARD UNLOCKED	•	F4:MENU:	L F5:M	1ENU3		

Figure 1-32. MOSS Primary Menu

Chapter 2. Maintaining the Code Loaded on the Service Processor

Maintenance Service Procedures	2-2
Displaying the Level of the Code Installed On the Hard Disk	2-2
Shutting Down the Service Processor	2-2
Restoring Data on the SP Hard Disk from a CD-ROM	2-3
Saving/Restoring Configuration on Diskette	2-4
Saving Configuration Parameters on the 374X Installation Parameters	
Diskette	2-5
Saving/Deleting Engineering Data	2-6
Installing a New Version of the LIC on a Service Processor	2-7
Changing the Active Code	2-8
Reporting Problem to RETAIN	2-9
Manually Reporting a Problem to RETAIN from a 3745 - XXA	2-9
Manually Reporting a Problem to RETAIN from a 3746-9x0 2-	-10
Handling Microcode Fixes on the Licensed Internal Code 2-	-11
Applying Microcode Fixes on the Licensed Internal Code 2-	-11
Removing Microcode Fixes on the Licensed Internal Code 2-	-14
3746-9x0 EEPROM Upgrade or Downgrade	-15
Managing the Passwords 2-	-17
Changing the Service Processor and Controller Passwords 2-	-17
Changing the Password for DCAF 2-	-20
Restoring the Passwords to the Default Values	-21

- Note

In this chapter there is no information about the multiaccess enclosure, If a MAE is installed, refer to *Multiaccess Enclosure Installation and Maintenance Guide*, SY33-2124 chapter 'Maintaining the Code on the MAE'.

Maintenance Service Procedures

Note -

For any error related to the service processor, go to the START page of:

- The 3745 Communication Controller Models 210 to 61A Maintenance Information Procedures, SY33-2054 (3745 Model X1A)
- The 3745 Communication Controller Models 130 to 17A Maintenance Information Procedures, SY33-2070 (3745 Model 17A)
- The 3746-900 Service Guide, SY33-2116 (3746-900)
- Or the 3746-950 Service Guide, SY33-2108 (3746-950)

Displaying the Level of the Code Installed On the Hard Disk

- 1. ____ Double click on the "Service Processor object icon"
- 2. ____ Click on "Change Management"
- 3. ____ Double click on "Manage Microcode Change" (see Figure 1-12 on page 1-8).
- 4. ____ Click on the "Browse Microcode Information"
- 5. ____ Click on **"OK"** to validate your choice.
- 6. _____ Select the code to be displayed.
- 7. ____ Click on "View".
- 8. ____ Select from the view pulldown menu the **Retrieved**, **Activated**, or **Accepted changes** option.
- 9. ____ Press the "Esc" key three times to exit from the function.

Shutting Down the Service Processor

- Note -

Before powering OFF or to reinitialize the Service Processor from a diskette or from the hard disk, use this procedure to properly close all the active functions.

- 1. ____ On the "MOSS-E view" window click on "**Program**" (see Figure 1-4 on page 1-3).
- Click on "Shut down", then enter the Service Processor maintenance password (default is IBM3745) and click on "OK".
 You are now able to power OFF or reboot the Service Processor.

Restoring Data on the SP Hard Disk from a CD-ROM

Notes

- 1. This function is **not disruptive** as it applies to the non-active version of the code loaded on the SP hard drive.
- 2. This function can be used to **restore a back level** of the code.
- 3. It restores **only the LIC**, if you want to restore the configuration files, use the function 'Manage Disks and Databases' and take the option 'Restore databases from diskette'.
- 4. If an NNP is installed, its code is also restored automatically.
- 1. _____ From the service processor menu, click on Configuration Management

Service	- Processor Menu Options <u>H</u> elp			
Con	figuration Management			
- 🗀	SP Customization			
	Customize DCAF Target Settings			
	Toggle to non-active version			
	Update SP (& NNP) LIC on non-active versio	n		
	Restore SP (& NNP) LIC on non-active version	on		
	Install 3746 and NNP LIC on SP hard disk			
	(M) Manage 3745/3746-9x0 Installation/Rer	nov	al	2

Figure 2-1. SP Configuration Management Menu

 Insert the optical disk or CD-ROM in the appropriate SP disk drive, double click on Restore SP (&NNP) LIC on non-active version, then follow the prompts.

🗄 Servic	2 Processor Menu 🛛 🖉 🗈	
Eunction	Options Help	
🗀 Cha	nge Management	
	Switch to non-active version	
	Update SP (& NNP) LIC on non-active version	
	Restore SP (& NNP) LIC on non-active version	
	Manage Microcode Changes	
	Change Active Code	
	(M) Manage Microcode Fixes	*

Figure 2-2. Service Processor Menu

3. ____ Then to activate the changes, use the function 'toggle to non-active version' to load and execute the new code in the processors (refer to "Changing the Active Code" on page 2-8).

Saving/Restoring Configuration on Diskette

– Note

This MOSS-E function is used to:

- 1. Define the frequency and the time to reorganize the hard disk database.
- 2. Save the configuration parameters on diskette when the machine configuration has been upgraded.
- 3. Restore the configuration parameters from the diskette.
- 1. ____ If not already logged, enter the **Service Processor maintenance** password (default is IBM3745).
- 2. ____ Double click on the "Service Processor icon".
- 3. ____ Click on "Operation Management".
- 4. ____ Double click on "Manage Disks and Databases"

Service Processor Menu	
👚 Problem Management	
Coperation Management	
– 🗀 Manage Disks and Databases	
– 🗀 Manage Passwords 🐧	
📙 🗁 (M) Disolau Files	

Figure 2-3. Operation Management Service Processor Menu

5. ____ Depending on the function you want to perform, use the radio buttons to select one of the options:

Disks and Data	oases Manageme	nt
Select an optio	n:	
💓 Optimize	databases on ha	ard disk
🏼 Save data	bases on disket	te(s)
🏼 Restore da	atabases from d	liskette(s)
<u>O</u> K	Cancel	Help

Figure 2-4. Disk and Databases Management

6. ____ Click on **"OK"** and follow the prompts.

7. ____ Click on "Cancel" to exit from the function.

Note: After restoring the configuration parameters, the Service Processor must be reinitialized to take in account these parameters, press "**Ctrl - Alt - Del**".

Saving Configuration Parameters on the 374X Installation Parameters Diskette

```
– Note –
```

This **MOSS-E** function is used to:

- 1. **Build** a 3745 or 3746-9x0 installation parameters diskette when one of this diskette is damaged or lost. It is the operator responsibility to provide a new formatted diskette free of errors.
- 2. **Update** a 3745 or 3746-9x0 installation parameters diskette with the information recorded on the hard disk.
- 3. This function is available when the machine is already configured and recorded on the service processor hard disk.
- 1. ____ If not already logged, enter the **Service Processor maintenance** password (default is IBM3745).
- 2. ____ Double click on the "Service Processor icon".
- 3. ____ Click on "Configuration management".
- 4. ____ Double click on "Manage 3745/3746-9x0 installation /removal".
- 5. ____ Click on line of the 3745 or 3746-9x0 that you want to save the configuration parameters, click on **"Save"**.

Controller	Туре	Model	S/N	Last changes saved
BS12 860 B				_
DOIL OOD D	3745	008	12-34568	<not saved=""></not>
	3746	900 (APPN)	12-34567	<not saved=""></not>
<new></new>		(
	<3745 not	t installed>		
	<3746 not	t installed>		
<new></new>				
	<3745 not	t installed>		
	<3746 not	t installed>		
<new></new>				
	<3745 not	t installed>		
	<3746 not	t installed>		
<new></new>				
	<3745 not	installed>		
	<3/46 not	installed>		

Figure 2-5. Controller Installation

6. _____ When prompted, insert the new diskette.

Saving/Deleting Engineering Data

- Note

This MOSS-E function is used to:

- 1. Save the engineering data when the DL2 link is not available or in error.
- 2. **Delete** the engineering data when they have been successfully recorded on diskette, or transferred to a support center via DCAF.
- 1. ____ If not already logged, enter the **Service Processor maintenance** password (default is IBM3745).
- 2. ____ Double click on the "Service Processor icon".
- 3. ____ Click on "Operation Management".
- 4. ____ Double click on "Manage Engineering Data", then follow the prompts.

Manage Engineering Data	T2				
PMH number: Branch office:	Country code:				
- Transfer choices					
SP WIF-A	Files selected for ZIP				
3746-1 Files	CM02Z81H.LSG 07-16-1998 1 CM02Z82H.LSG 07-16-1998 1 CM02Z83H.LSG 07-16-1998 1 CM02Z84H.LSG 07-16-1998 1 CM02Z85H.LSG 07-16-1998 1				
Add Add all Delete from disk	Remove all				
Create ZIP files Manage existing ZIP files Cancel Help					

Figure 2-6. Manage Engineering Data Menu

When this data is transferred or recorded properly on the disk, you can erase the file which contained it.

1. _____ Click on "Delete from disk", then follow the prompts.
Installing a New Version of the LIC on a Service Processor

Important Note -

The installation procedures depends on the level of the code and the hardware currently installed and the level of the code to be installed.

Use the installation instructions shipped with the microcode to upgrade the LIC of the service processor.

A copy of the installation instructions can be obtained from the web site: **http://infodev1.lagaude.ibm.com**.

Changing the Active Code

- Notes -

- 1. This function is **disruptive** and it is used to switch the non-active partition and the active partition. It reboots the SP and the NNPs (if any).
- 2. Use this function after a LIC upgrade or a LIC restore to load the processors with the new LIC.
- 1. _____ From the service processor menu, click on Change Management

Service Processor Menu Z n Function Options Help	
Change Management	
- 🗀 Switch to non-active version	
- 🗀 Update SP (& NNP) LIC on non-active version	
- 🗀 Restore SP (& NNP) LIC on non-active version	
– 🗀 Manage Microcode Changes	
- 🗀 Change Active Code	
└ 🗀 (M) Manage Microcode Fixes	

Figure 2-7. Service Processor Change Management Menu

2. ____ Double click on Switch to non-active version, then follow the prompts.

Service Processor Menu	
<u>Function Options Help</u>	
🗀 Change Management	
– 🗀 Switch to non-active version	
- 🗀 Update SP (& NNP) LIC on non-	
C Restore SP (& NNP) LIC on non-	
- 🗀 Manage Microcode Changes	
- 🗀 Change Active Code	
└ 🗀 (M) Manage Microcode Fixes	2

Figure 2-8. Service Processor Menu

Reporting Problem to RETAIN

- Note -

This function is used to initiate the **first link** to **RETAIN** after a 3745 XXA or a 3746-9x0 **installation**.

Manually Reporting a Problem to RETAIN from a 3745 - XXA

- 1. ____ Double click on the **3745 object icon**.
- 2. ____ Click on "Problem Management", then scroll forward.
- 3. ____ Double click on "Report Problem using Remote Support Facility".
- 4. ____ Enter a short description of the problem then click on "OK".
- 5. ____ Wait for the message "Call to RETAIN successful" indicating the normal end of the transmission.

If you get the message "Call to RETAIN unsuccessful", record the Customer Problem Number (CPN) and go to:

- The **START** page of the *3745 Communication Controller Models 210 to 61A Maintenance Information Procedures*, SY33-2054, if you are working on a **3745 Model X1A**.
- Or go to the START page of the 3745 Communication Controller Models 130 to 17A Maintenance Information Procedures, SY33-2070, if you are workingon a 3745 Model 17A.

🗠 🗜 FRV1 10fev93 - Problem Analysis	
Your system is not correctly operating. No error was logged or reported by the Service Processor.	
You request IBM assistance or service.	
Please give a short description of the problem:	
R.	
OK Cancel Help	harmonia

Figure 2-9. Link to RETAIN

Manually Reporting a Problem to RETAIN from a 3746-9x0

- 1. ____ Double click on the "3746-9x0 object icon".
- 2. ____ Click on "Problem management".
- 3. ____ Double click on "Report Problem using Remote Support Facility".
- 4. ____ See Figure 2-9 on page 2-9, enter a **short description** of the problem then click on **"OK"**.
- 5. ____ Wait for the message "Call to RETAIN successful" indicating the normal end of the transmission.

If you get the message "Call to RETAIN unsuccessful", record the Customer Problem Number(CPN) and go to:

- The **START** page of the *3746-950 Service Guide*, SY33-2108, if you are working on a **3746 Model 950**.
- Or go to the **START** page of the *3746-900 Service Guide*, SY33-2116, if you are working on a **3746 Model 900**.

Handling Microcode Fixes on the Licensed Internal Code

Applying Microcode Fixes on the Licensed Internal Code

- Note -
- This function is used to fix emergency problems on code and must be executed on Product Engineering recommendations.
- 1. _____ If you have received MCFs through VM, copy these MCFs on a diskette or optical disk (we recommend to use ALMCOPY to download these files in binary format).
- Install the diskette or the optical disk in the Service Processor diskette or disk drive.
- 3. _____ Enter the Service Processor maintenance password (default is IBM3745).
- 4. ____ Double click on the "Service Processor object icon".
- 5. ____ Click on "Change Management".
- Double click on "Manage Microcode Fixes" (see Figure 1-16 on page 1-9).
- 7. ____ Click on "View", click on "Change directory path"
- 8. ____ Enter A:*.* to select the MCFs recorded on the diskette or T:*.* for optical disk, and click on "OK".

Note: The optical disk is **X** for the 400 Meg hard drive installed on a 9577.

- 9. ____ On the list displayed, click on the **fixes** to be applied.
- 10. ____ Click on "File", click on "Move"

- 11. _____ when the change path is displayed, enter the directory path according to the information displayed on the following screen (in this example 'SR3_863D' MCFs are in J:\CM1), then click on **"OK"**.
 - J:\CM1\ALL for MCF concerning the 3746-9x0 number 1
 - J:\CM2\ALL for MCF concerning the 3746-9x0 number 2
 - J:\MAE\ALL for MCF concerning the MAE
 - J:\MCF\ALL for all other MCFs.

🖾 Change Directory Path
Enter the full path of file or directory to be displayed following the format (drive:\directory\filename.extension or *), or click on the OK push button for default directory:
SERVICE PROCESSOR , PATH TO FIXES: J:\MCF\
SR3_863D, SN: 11-23456 , PATH TO FIXES: J:\CM1\
MAE BLPU, PATH TO FIXES: J:\MAE
OK Cancel Help

Figure 2-10. Manage Microcode Fixes

12. ____ Enter "the directory path" (see step 11) then click on "OK".

Move Microcode F	īx Files	
Enter the new path UK4BS7, SN: 12- BS2, SN: 55-555	h specification following the forr ·34567 , PATH TO FIXES: J:' 555 , PATH TO FIXES: J:\CM	nat (drive:\directory): \CM1 \ 2 \
	-	
N Cancel H	elp	

Figure 2-11. Manage Microcode Fixes

13. ____ Click on the lines of the MCFs to be applied (see example in the Figure 2-12 on page 2-13)

14. ____ Click on "Options" and from the Options pull down menu click on Activate microcode fix

Eile Options View Help Cha Activate microcode fix nabled Dire Deactivate microcode fix nabled Fi Fi Select one or more items: Name Group Status Date Time Description RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22614 408 001 DEACT 12-15-92 02:54p NONE PFA SRC 0345AC1 LOGGED 0 RD22606 407 05 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I 1 RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 405 05 DEACT	Manage	<u> Sileio</u>		- ixes			ت ۲	D
Activate microcode fix Dire nabled Deactivate microcode fix Fi nabled Fi Select one or more items: Fime Description RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22601 401 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22614 408 001 DEACT 12-15-92 02:54p NAME FACUTE MILMUST BE DC RD22606 407 005 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ATATIONS DUMPED WHEN STAND RD22608 405 055 DEACT 12-14-92 05:02p DIM WITH DIAGS DOESN'T START RD22601 408 005 DEACT 12-14-92 05:02p TRL WITH DIAGS DOESN'T START RD22608 405	File Optio	ns <u>V</u> i	iew	<u>H</u> elp				
Dire Deactivate microcode fix Fi Select one or more items: Name Group Status Date Time Description RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22614 40B 001 DEACT 12-15-92 02:54p NONE PFA SRC 0335AC1 LOGGED D RD22606 407 005 DEACT 12-15-92 02:54p NONE PFA SRC 0335AC1 LOGGED D RD22606 407 005 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p DNONT SEND TRID RELATED MESS <tr< td=""><td>Cha Activ</td><td>vate m</td><td>icroco</td><td>nde fix</td><td>⊾ nabled</td><td></td><td></td><td>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td></tr<>	Cha Activ	vate m	icroco	nde fix	⊾ nabled			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Select one or more items: Name Group Status Date Time Description RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22601 401 001 DEACT 12-15-92 02:54p FAC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FAC01613 + ROUTE MILMUST BE DO RD22614 408 001 DEACT 12-15-92 02:54p NONE PFA SRC 03A5AC1 LOGED D RD22606 407 005 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STAND RD22608 403 005 DEACT 12-14-92 05:02p IM WITH DIAGS DOESN'T START RD22610 408 005 DEACT 12-14-92 05:02p NOT SEND	Dire Dea	ctivate	micr	ocode fi	X			
Select one or more items: Name Group Status Date Time Description RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FAC007 - SRC 0531312B - END 0 RD22614 408 001 DEACT 12-15-92 02:54p FAC01G13 : ROUTE MILMUST BE DO RD22606 407 005 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22606 409 006 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p MUTH DIAGS DOESN'T START RD22610 408 005 DEACT 12-14-92 05:02p TRP IN POS LIM3	DII <i>C</i>			······				
Name Group Status Date Time Description RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FAC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FAC01G13 : ROUTE MI MUST BE DO RD22614 408 001 DEACT 12-15-92 02:54p NONE PFA SRC 03A5AC1 LOGED D RD22606 407 05 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPE WHEN IP RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPE WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ST 4 STATIONS DUMPE WHEN STAND RD22608 405 005 DEACT 12-14-92 05:02p IM	Coloct one		ra ita	ma:				
Name Group Status Date Time Description RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FAC007 - SRC 0531312B - END 0 RD22614 408 001 DEACT 12-15-92 02:54p FAC01G13 : ROUTE MI MUST BE DO RD22606 407 005 DEACT 12-15-92 02:54p NONE PFA SRC 03A5AC1 LOGED D RD22606 407 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STAND RD22610 408 005 DEACT 12-14-92 05:02p NU NITH DIAGS	Select one	or mo	re ne	ins.				
RD22606 404 001 DEACT 12-15-92 02:54p FNC007 SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p FA01G13 : ROUTE MIL MUST BE DO RD22614 408 001 DEACT 12-15-92 02:54p FA01G13 : ROUTE MIL MUST BE DO RD22614 408 001 DEACT 12-15-92 02:54p NONE PFA SRC 0335AC1 LOGGED D RD22606 407 055 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STAND RD22608 403 005 DEACT 12-14-92 05:02p DNOT SEND TID RELATED MESS RD22611 408 005 DEACT 12-14-92 05:02p	Nane	G	roun	Status	Date	Time	Description	
RD22606 404 001 DEACT 12-15-92 02:54p FNC007 - SRC 0531312B - END 0 RD22611 401 001 DEACT 12-15-92 02:54p TA01G13 : ROUTE NUST BE DC RD22614 408 001 DEACT 12-15-92 02:54p NONE PFA SRC 0335AC1 LOGED D RD22606 407 005 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN I P RD22606 409 006 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN I P RD22608 403 005 DEACT 12-14-92 05:02p ASNORMAL CBSP DUMP WHEN STAND RD22610 408 005 DEACT 12-14-92 05:02p DO NOT SEND TATI STAND	NG MO		, oup	0.0.00	buto	11140	boooription	
RD22611 401 001 DEACT 12-15-92 02:54p TA01G13 ROUTE MILE MUST BE DC RD22614 408 001 DEACT 12-15-92 02:54p TA01G13 ROUTE MILE MUST BE DC RD22614 408 001 DEACT 12-15-92 02:54p NONE PFA SRC 03A5AC1 LOGED D RD22606 407 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STATI RD22610 408 005 DEACT 12-14-92 05:02p DO NOT SEND TID RELATED MESS RD22611 408 005 <td< td=""><td>PD22606</td><td>X0 X</td><td>001</td><td>DEACT</td><td>12-15-02</td><td>02·5/n</td><td>ENCON7 - SPC 05313128 - END 0</td><td></td></td<>	PD22606	X 0 X	001	DEACT	12-15-02	02·5/n	ENCON7 - SPC 05313128 - END 0	
RD22614 40B 001 DEACT 12-15-92 02:54p NONE PFA SRC 03A5AC1 LOGGED D RD22606 407 005 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STATI RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STATI RD22610 408 005 DEACT 12-14-92 05:02p DO NOT SEND TID RELATED MESS RD22611 402 006 DEACT 12-14-92 05:02p TRP IN POS	DEEDOO	404		15.M		02.34p		
RD22606 407 005 DEACT 12-14-92 05:02p SPA DUMP WHEN SCLLCP SERVER I RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22606 409 006 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STATI RD22608 405 005 DEACT 12-14-92 05:02p DO NOT SEND TID RELATED MESS RD22611 402 006 DEACT 12-14-92 05:02p TRP IN POS LIM3 DISC WHEN BOX RD22613 407 005 DEACT 12-14-92 05:02p ST: LIVE	RD22614	40R	001	DFACT	12-15-92	02:54n	NONE PEA SRC 03A5AC1 LOGGED D	
RD22606 408 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22606 409 006 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STATIONS RD22608 405 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STATIONS RD22610 408 005 DEACT 12-14-92 05:02p DO NOT SEND TID RELATED MESS RD22613 407 005 DEACT 12-14-92 05:02p ST: LIVE 3174 DOESN'T RECONNE RD22606 406 004 DEACT 12-14-92 05:01p FNC023 BUG CSN05AG& NOT ISO	RD22606	407	005	DEACT	12-14-92	05:020	SPA DUMP WHEN SCLLCP SERVER I	
RD22606 409 006 DEACT 12-14-92 05:02p ST: 4 STATIONS DUMPED WHEN IP RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STAND RD22608 405 005 DEACT 12-14-92 05:02p IML WITH DIAGS DOESN'T START RD22610 408 005 DEACT 12-14-92 05:02p DO NOT SEND TRID RELATED MESS RD22611 402 006 DEACT 12-14-92 05:02p TRP IN POS LIM3 DISC WHEN BOX RD22613 407 005 DEACT 12-14-92 05:02p ST: LIVE 3174 DOESN'T RECONNE RD22613 407 005 DEACT 12-14-92 05:01p FNC023 - BUG CSN05AG* NOT ISO RD22606 406 004 DEACT 12-14-92 05:01p RAS: MOSS-E HANG WITH FAN 1 D RD22608 404 003 DEACT 12-14-92 05:01p AUTODUMP KO ON NEW HARDWARE W	RD22606	408	005	DEACT	12-14-92	05:02p	ST: 4 STATIONS DUMPED WHEN IP	
RD22608 403 005 DEACT 12-14-92 05:02p ABNORMAL CBSP DUMP WHEN STAND RD22608 405 005 DEACT 12-14-92 05:02p IML WITH DIAGS DOESN'T START RD22610 408 005 DEACT 12-14-92 05:02p DO NOT SEND TRID RELATED MESS RD22611 402 006 DEACT 12-14-92 05:02p TRP IN POS LIM3 DISC WHEN BOX RD22613 407 005 DEACT 12-14-92 05:02p TRP IN POS LIM3 DISC WHEN BOX RD22603 407 005 DEACT 12-14-92 05:02p ST: LIVE 3174 DOESN'T RECONNE RD22606 406 004 DEACT 12-14-92 05:01p FNC023 BUG CSN05AG& NOT ISO RD22608 404 003 DEACT 12-14-92 05:01p AUTODUMP KO N NW HARD	RD22606	409	006	DEACT	12-14-92	05:02p	ST: 4 STATIONS DUMPED WHEN IP	
RD22608 405 005 DEACT 12-14-92 05:02p IML WITH DIAGS DOESN'T START RD22610 408 005 DEACT 12-14-92 05:02p DO NOT SEND TRID RELATED MESS RD22611 402 006 DEACT 12-14-92 05:02p TRP IN POS LIM3 DISC WHEN BOX RD22613 407 005 DEACT 12-14-92 05:02p ST: LIVE 3174 DOESN'T RECONNE RD22606 406 004 DEACT 12-14-92 05:01p FNC023 BUG CSN05AG* NOT ISO RD22608 404 003 DEACT 12-14-92 05:01p RAS: MOSS-E HANG WITH FAN D RD22610 406 004 DEACT 12-14-92 05:01p AUTODUMP KO N NEW HARDWARE V	RD22608	403	005	DEACT	12-14-92	05:02p	ABNORMAL CBSP DUMP WHEN STAND	
RD22610 408 005 DEACT 12-14-92 05:02p D0 NOT SEND TRID RELATED MESS RD22611 402 006 DEACT 12-14-92 05:02p TRP IN POS LIM3 DISC WHEN BOX RD22613 407 005 DEACT 12-14-92 05:02p ST: LIVE 3174 DOESN'T RECONNE RD22606 406 004 DEACT 12-14-92 05:01p FNC023 BUG CSN05AG* NOT ISO RD22608 404 003 DEACT 12-14-92 05:01p RAS: MOSS-E HANG WITH FAN 1 D RD22610 406 004 DEACT 12-14-92 05:01p AUTODUMP KO NEW HARDWARE V	RD22608	405	005	DEACT	12-14-92	05:02p	IML WITH DIAGS DOESN'T START	
RD22611 402 006 DEACT 12-14-92 05:02p TRP IN POS LIM3 DISC WHEN BOX RD22613 407 005 DEACT 12-14-92 05:02p ST: LIVE 3174 DOESN'T RECONNE RD22606 406 004 DEACT 12-14-92 05:01p FNC023 - BUG CSN05AG* NOT ISO RD22608 404 003 DEACT 12-14-92 05:01p RAS: MOSS-E HANG WITH FAN 1 D RD22610 406 004 DEACT 12-14-92 05:01p AUTODUMP KO N NEW HARDWARE V	RD22610	408	005	DEACT	12-14-92	05.02p	DO NOT SEND TRID RELATED MESS	
RD22613 407 005 DEACT 12-14-92 05:02p ST: LIVE 3174 DOESN'T RECONNE RD22606 406 004 DEACT 12-14-92 05:01p FNC023 - BUG CSN05AG* NOT ISO RD22608 404 003 DEACT 12-14-92 05:01p RAS: MOSS-E HANG WITH FAN 1 D RD22610 406 004 DEACT 12-14-92 05:01p AUTODUMP KO NEW HARDWARE ¥	RD22611	402	006	DEACT	12-14-92	05:02p	TRP IN POS LIM3 DISC WHEN BOX	
RD22606 406 004 DEACT 12-14-92 05:01p FNC023 - BUG CSN05AG¥ NOT ISO RD22608 404 003 DEACT 12-14-92 05:01p RAS: MOSS-E HANG WITH FAN 1 D RD22610 406 004 DEACT 12-14-92 05:01p AUTODUMP KO N NEW HARDWARE ₩	RD22613	407	005	DEACT	12-14-92	05:02p	ST: LIVE 3174 DOESN'T RECONNE	
RD22608 404 003 DEACT 12-14-92 05:01p RAS: MOSS-E HANG WITH FAN 1 D RD22610 406 004 DEACT 12-14-92 05:01p AUTODUMP KO ON NEW HARDWARE ₩	RD22606	406	004	DEACT	12-14-92	05:01p	FNC023 - BUG CSN05AG* NOT ISO	
RD22610 406 004 DEACT 12-14-92 05:01p AUTODUMP KO ON NEW HARDWARE W	RD22608	404	003	DEACT	12-14-92	05:01p	RAS: MOSS-E HANG WITH FAN 1 D	
	RD22610	406	004	DEACT	12-14-92	05:01p	AUTODUMP KO ON NEW HARDWARE W 🖌	
							X X	

Figure 2-12. Manage Microcode Fixes

- 15. _____ Remove the diskette or the optical disk from the drive.
- 16. ____ The service processor or the 3746-9x0 are now reinitialized depending on the MCFs type:
 - If the MCFs concern the 3746-900 code, click on "OK" twice to re-IML the 3746-900, verify the MCFs status it must be "ACT" and then go to step 18
 - If the MCFs concern the service processor code, click on "OK" to shutdown the service processor, an automatic IPL of the service processor is performed and then go to step 17.
- 17. ____ Verify the MCFs status:
 - a. _____ Enter the Service Processor maintenance password
 - b. ____ Double click on the "Service Processor object icon".
 - c. ____ Click on "Change Management".
 - d. _____ Double click on "Manage Microcode Fixes"
 - e. ____ Click on "View", click on "Change directory path"
 - f. _____ Enter the "directory path": J:\MCF.
 - g. ____ Click on **OK** and verify the MCFs status, it must be "ACT".
- 18. ____ Click on the "System Menu Icon", click on "Close" to exit from the function.

Removing Microcode Fixes on the Licensed Internal Code

- Note

If you have a **"backup"** service processor, perform the same procedures on this SP to remove the MCFs.

- 1. _____ Enter the Service Processor maintenance password (default is IBM3745).
- 2. ____ Double click on the "Service Processor object icon".
- 3. ____ Click on "Change Management".
- 4. ____ Double click on "Manage Microcode Fixes" (see Figure 1-16 on page 1-9).
- 5. ____ Click on "View", click on "Change directory path"
- 6. ____ Enter the "directory path":
 - J:\CM1 for MCF concerning the 3746-900 number 1
 - J:\CM2 for MCF concerning the 3746-900 number 2
 - J:\MAE\ALL for MCF concerning the MAE
 - J:\MCF for all other MCFs.

Then click on OK.

- Click on the lines of the MCFs to be removed (see Figure 2-12 on page 2-13)
- 8. ____ Click on "**Options**" and from the **Options** pull down menu click on "**Deactivate microcode fix**"
 - If the MCFs concern the 3746-900 code, click on "OK" twice to re-IML the 3746-900, verify the MCFs status, it must be "DEACT" and then go to step 10.
 - If the MCFs concern the service processor code, click on "OK" to shutdown the service processor, an automatic IPL of the service processor is performed and then go to step 9.
- 9. ____ Verify the MCFs status:
 - a. _____ Enter the Service Processor maintenance password
 - b. ____ Double click on the "Service Processor object icon".
 - c. ____ Click on "Change Management".
 - d. ____ Double click on "Manage Microcode Fixes"
 - e. ____ Click on "View", click on "Change directory path"
 - f. _____ Enter the "directory path": J:\MCF.
 - g. _____ Click on OK and verify the MCFs status, it must be "DEACT".
- 10. ____ Click on the "System Menu Icon", click on "Close" to exit from the function.

3746-9x0 EEPROM Upgrade or Downgrade

- Notes

- 1. This function will be used after a:
 - Microcode change fix (MCF)
 - EC installation
 - Processor replacement
- 2. While an EEPROM Upgrade/Downgrade is running, **Do not** power OFF or IML the 3746-9x0
- 3. Following an EEPROM upgrade/downgrade and if you have a SP backup it is recommended to apply the same procedure on the SP backup.
- 4. For any error code displayed on the 3746-9x0 panel go to the **START** page of the:
 - 3745 Communication Controller Models 210 to 61A Maintenance Information Procedures, SY33-2054 (3746-900 attached to 3745-X1A)
 - 3745 Communication Controller Models 130 to 17A Maintenance Information Procedures, SY33-2070 (3746-900 attached to 3745-17A)
 - 3746-950 Service Guide, SY33-2108 (3746-950)
- 1. ____ On the "MOSS-E VIEW" window, double click on the "**3746-9x0 icon**" (see Note 1).
- 2. ____ On the "3746-9x0 Menu" window click on "Change Management".
- Double click on the "Upgrade/Downgrade EEPROM Code Level".
 A window is displayed with a message box saying that the service processor is searching the 3746-9x0 configuration.
 On "EEPROM Upgrade" window, the upgradable or downgradable processors

are **highlighted** according to the preselected status of the options "Upgrade" or "Downgrade" on the top of the window (see Figure 2-13 on page 2-16).

Processor	EEPROM level: PN - EC - MCL	Upgrade Status	
CBSP 2048 Available	Current: 43G3435 - D21455 - 002 New : 43G3435 - D22455 - 008		
TRP 2112 Disconnected	Current: 43G3425 - D22455 - 007 New : 43G3425 - D22455 - 008		
TRP 2170 Available	Current: 43G3435 - D22455 - 001 New : 43G3435 - D22455 - 008		
TRP 2304 Active	Current: 43G3425 - D22455 - 037 New : 43G3425 - D22455 - 008		
1	2	3	

Figure 2-13. Example of An EEPROM Upgrade Window

- **1** Gives the list of the 3746-9x0 processors in CDF-E with their status (available/disconnected/active).
- 2 Gives the current and new EEPROM level: PN/EC/Level of each processor.
- **3** Gives the status after the activation of the function.
- Select the "Upgrade" or "Downgrade" option on the top of the screen then click on "OK" according to the action that you want do do. An "EEPROM Upgrade" window informs you that the EEPROM upgrade or downgrade is in progress with its time duration. At the end, a status is displayed for each processor.
- 5. ____ Check the result of your EEPROM upgrade/downgrade operation with the following table and take the appropriate action:

EEPROM Status	Action
Complete	Upgrade done without error continue with the next step.
Start failed	Call your support
Failed	Call your support
Completion failed	Call your support

Note: If you have done the EEPROM Upgrade after exchanging a processor leave this procedure and return to the point, in the MAP where you come from. Otherwise continue with the next step.

- 6. _____ Return to the "3746-9x0 Menu" click on "Operation Management".
- Double click on the "Perform General IML" with "Diagnostics". A Normal IML must be terminated by 00000000 displayed on the 3746-9x0 control panel.

Managing the Passwords

Changing the Service Processor and Controller Passwords

Different passwords are defined, the default password is IBM3745:

- 1. The Service Processor maintenance password
- 2. The Service Processor customer password
- 3. The Controller maintenance password
- 4. The Controller customer password
- 5. The password to access password management
- 6. The CCM/TELNET user user profiles management

Refer to the appendix of the *3745/17A-61A and 3746-900 Basic Operations Guide*, SA33-0177 or *3746 Nways Multiprotocol Controller Model 950 User's Guide*, SA33-0356 to obtain the list of the functions accessible to the user depending on the password.

- Notes
- 1. If the password contains numeric digits, don't forget to enable the numeric keys by clicking on the numeric lock key (NumLk).
- 2. If you have a **backup** Service Processor do not forget to update your passwords on this Service Processor using the same procedure.
- 1. ____ Double click on the "Service Processor object icon".
- 2. ____ Click on "Operation Management"
- 3. ____ Double click on "Manage Passwords" function (see Figure 1-12 on page 1-8)
- Ask the customer to obtain the management password reserved for this function (the default password is IBM3745).
- 5. ____ Enter the password and click on "OK".
- 6. ____ Click on "MOSS-E view passwords".

Password Manager	nent
Select an option:	
🕷 MOSS-E view pas	swords
🎯 Management pass	word
🏼 CCM/Telnet user	profiles management
<u>OK</u> <u>Cancel</u>	Help

Figure 2-14. Management Password

- 7. ____ Click on "**OK**"
- 8. ____ On the following screen, enter or ask the customer to enter the 4 different passwords.

Service processor		Controllers	
Customer	Maintenance	Customer	Maintenance
IBM3745	IBM3745	IBM3745	IBM3745
Status:	Permanent 🗧	Status:	Permanent
Failed attempts: 🔅	34	Attempt thresho	ld: 99

Figure 2-15. MOSS-E View Password

- 9. ____ Click on "Apply"
- 10. ____ Select Management password
- 11. ____ Click on "**OK**"
- 12. ____ In the following screen, enter or ask the customer to enter the **Management password** and modify the **attempt threshold** value if necessary.

Management Password	
Password:	IBM3745
Failed attempts:	0
Attempt threshold:	99
Apply Reset Reset failed atte	mpt counter Cancel Help

Figure 2-16. Management Password

13. ____ Click on "Apply"

14. ____ Click on "CCM/Telnet user profiles management", then click on "help" and enter the required parameters

Jserid:		Password:		Ann
Access type:	Mu access	💹 View unity 🖇	All	
Access on v	which 3746-9X(?		
🗊 Not used				
🗌 Not used				
lser Profiles	: Alreadu Config	ured		
Jser Profiles Jserid	s Already Config Password	ured Access type 3	746-9X0 S/N	
Jser Profiles Jserid	s Already Config Password	Access type 3	746-9X0 S/N	
Jser Profiles Jserid	s Already Config Password	ured Access type 3	746-9X0 S/N	

Figure 2-17. CCM/Telnet Management Password

- 15. ____ Click on "OK"
- 16. ____ Click on "Cancel" to leave the function.

Changing the Password for DCAF

– Note –

If you have a **backup** Service Processor do not forget to update the DCAF password on this Service Processor using the same procedure.

- 1. ____ Double click on the "Service Processor object icon".
- 2. ____ Click on "Configuration management".
- 3. ____ Double click on the **"Customize DCAF Target Settings"** function (see Figure 1-12 on page 1-8)
- 4. ____ Click on "Options", then click on Password.

DCAF Target	• 🗆
Communication Session	Options Help
Communication Type	Personalization Ctrl+P
NETBIOS	Pass <u>w</u> ord ^v Ctrl+W
ACDI	Closed
APPC	Open
	im 2.1

Figure 2-18. DCAF Target

5. ____ Click on **"Enable password"** then enter the password in the **New password** and **Verify new password** input fields according to the value recorded by the customer on the parameter sheet.

🕷 Enable password	
Current password:	
New password:	
Verify new password:	
	())))))))))))))))))))))))))))))))))))))

Figure 2-19. DCAF Password

6. ____ Click on "Change", click on "OK", then press "F3" to close DCAF.

Restoring the Passwords to the Default Values

Notes -

- 1. This function is used when the customer has lost his passwords or when the number of unsuccessful logon attempts has reached the maximum number defined, or when reloading the hard disk.
- 2. If you have a **backup** Service Processor do not forget to restore the passwords on this Service Processor using the same procedure.
- 1. _____ If you are on the MOSS-E logon window, click on "Cancel"
- 2. ____ On the MOSS-E view window, click on "**Program**" (see Figure 1-4 on page 1-3).
- 3. _____ From the pull down menu, click on "Restore password".
- 4. ____ When requested install the **Service Processor installation diskette 1** in the diskette drive, then follow the prompts.

The passwords are now restored to their default value (**IBM3745**), and the number of logon attempts is reset.

Chapter 3. Managing the Network Node Processor and the Control Point

Installing or Removing a Network Node Processor	2
Installing a New Version of the LIC on a Network Node Processor	3
Restoring the LIC on a Network Node Processor	4
Changing the Active LIC	5
Modifying IP Parameters	3
Managing the Control Point and the NNP 3-	7
Importing a Configuration	3
Exporting a Configuration 3-	9
Accessing a Network Node Processor	1
Accessing IP Commands from the MOSS-E 3-13	3

- Note

In this chapter there is no information about the multiaccess enclosure, If a MAE is installed, refer to *Multiaccess Enclosure Installation and Maintenance Guide*, SY33-2124 chapter 'Maintaining the Code on the MAE'.

Installing or Removing a Network Node Processor

- Menu Antiperson An
- 1. ____ Double click on Install/Remove/Change/Restore LIC/NNP

Figure 3-1. NNP-A Licensed Internal Code Management

2. ____ Select the NNP (A or B) then click on Install NNP or Remove NNP

INP-A Status	}		广禄祥 3-13 Status	
	Installed		Hat installed	
elect the NNP	^o that you want	to work with:	💓 NNP-A 💓 NNP-B	

Figure 3-2. Installing or Removing a NNP-A

Installing a New Version of the LIC on a Network Node Processor

Important Note -

The installation procedures depends on the level of the code and the hardware currently installed and the level of the code to be installed.

Use the installation instructions shipped with the microcode to upgrade the LIC of the network node processor.

A copy of the installation instructions can be obtained from the web site: http://infodev1.lagaude.ibm.com.

Restoring the LIC on a Network Node Processor

Note: This function is **not disruptive** as it applies on the LIC loaded on the non-active partition. This function can be used to reload a back level of code.

1. _____ From the service processor menu, click on **Change Management**

Service Processor Menu Z Function Options Help	
Change Management	
- 🗀 Switch to non-active version	
- 🗀 Update SP (& NNP) LIC on non-active version	
\vdash $\stackrel{\frown}{\frown}$ Restore SP (& NNP) LIC on non-active version	
– 🗀 Manage Microcode Changes	
- 🗀 Change Active Code	
└ 🗀 (M) Manage Microcode Fixes	

Figure 3-3. SP Change Management Menu

2. ____ Insert the CD-ROM into the CD disk drive and the configuration diskette into the diskette drive. Double click on **Restore SP (&NNP) LIC on non-active version**, then follow the prompts.

Servic	e Processor Menu 🖉 🕮	
Eunction	Options Help	
🗀 Cha	nge Management	
- 🗀	Switch to non-active version	
- 🗀	Update SP (& NNP) LIC on non-active version	
	Restore SP (& NNP) LIC on non-active version	
	Manage Microcode Changes	
- 🗀	Change Active Code	
	(M) Manage Microcode Fixes	

Figure 3-4. Service Processor Menu

3. ____ Then to activate the changes, use the function 'toggle to non-active version' to load and execute the new code in the processors (refer to "Changing the Active LIC" on page 3-5).

Note: If an NNP backup is installed, its code is also restored automatically.

Changing the Active LIC

Notes:

- 1. This function is **disruptive** and it is used to switch the non-active partition and the active partition. It reboots the SP and the NNPs (if any). Use this function after a LIC upgrade or a LIC reload to load the processors with the new LIC.
- 2. It applies only on SP/NNP running LIC EC **F12380** and above (using CD drive).
- 1. _____ From the service processor menu, click on Change Management

Service Processor Menu Eunction Options Help	D E
Change Management	X
- 🗀 Switch to non-active version	
\vdash $\stackrel{\frown}{\frown}$ Update SP (& NNP) LIC on non-active versi	on
- $ -$ Restore SP (& NNP) LIC on non-active vers	ion
– 🗀 Manage Microcode Changes	
- Change Active Code	
└ 🗀 (M) Manage Microcode Fixes	

Figure 3-5. SP Change Management Menu

2. ____ Double click on **Switch to non-active version**, then follow the prompts.

Service Processor Menu	
Function Options Help	
Change Management	
– 🗀 Switch to non-active version	
– 🗀 Update SP (& NNP) LIC on non-	
- 🗀 Restore SP (& NNP) LIC on non-	
- 🗀 Manage Microcode Changes	
- 🗀 Change Active Code	
🛛 └ 🗀 (M) Manage Microcode Fixes 👘	Ŵ

Figure 3-6. Service Processor Menu

Note: If an NNP backup is installed, its active code is also switched to the non-active version.

Modifying IP Parameters

1. ____ Double click on Install/Remove/Change/Restore LIC/NNP

E Menu	
Concrete Sprace Deep Concrete Sprace Deep	
– 🗀 [M] Install/Remove/Change/Restore LIC/NNP	
– 🗀 Manage Control Points on NNPs	
- CCM - Controller Configuration and Management	t
– 🗀 (M) Connect To an NNP	
IP Commands	

Figure 3-7. NNP Licensed Internal Code Management

NHP Licensed Internal Code (LIC) Management	
าแรวอยุโรง	
	- MP-B Status
Installed	Not installed
Select the NNP that you want to work with:	MNP-A 💓 NNP-B
Remove NNP Modify IP part	ameters
Restare LIC on NNP Close Help	

2. _____ Select the NNP (A or B) then click on Modify IP Parameters...

Figure 3-8. Modifying IP Parameters

3. ____ On this screen you can modify the IP address and Subnet mask parameters (press Help pushbutton for details).

			Tostidine
vice Processor:	192.9.200.1	255.255.255.240	[S1,11111
P-A:	192.9.200.2	255.255.255.0	CA112345
₽-8:		255.255.255.0	CB112345
46 NN:	192.9.200.4	255.255.255.0	

Figure 3-9. IP Parameters

Managing the Control Point and the NNP

1. ____ Double click on Manage Control Point on NNPs

📱 Menu Z 🗉	
<u>Function</u> Options Help	
🗀 Network Node Processor (NNP) Management	
- 🗀 (M) Install/Remove/Change/Restore LIC/NNP	
– 🗀 Manage Control Points on NNPs	
– 🗀 CCM - Controller Configuration and Management	
– 🗀 (M) Connect To an NNP	
🖵 🦳 IP Commands	4

Figure 3-10. Manage Control Point on NNPs

- 2. ____ From this screen, select the NNP (A or B) then you are able to:
 - a. Start, stop, or stop and restart a control point
 - b. Activate a specific configuration
 - c. Take a dump of a control point
 - d. Shutdown and restart a NNP
 - e. Manage NPM configuration.

Note: Press help pushbutton to get details.

LA GAUDE /3746-9x0/Manage Control Points (CP) on NNP
CP/NNP Messages
CP/NNP-A Status
Link operational Standby
Options
Select the CP/NNP that you want to manage: 💓 CP/NNP-A 🔅 CP/NNP-B
Automatic configuration activation
Start CP Stop CP Stop and restart CP Activate configuration Dump CP
Help <u>Close</u> Shut <u>down and restart NNP</u> <u>Manage NPM</u>

Figure 3-11. Managing the Control Point and NNPs

Importing a Configuration

CCM will be used mainly by the CE to import or export a configuration, for more details refer to *3745 Communication Controller Models A and 3746 Expansion Unit Model 900: Migration and Planning Guide*, SH11-3081.

1. ____ Double click on Controller Configuration and Management (CCM)

🗒 Menu	
Function Options Help	
🗀 Network Node Processor (NNP) Management	
(M) Install/Remove/Change/Restore LIC/NNP	
– 🗀 Manage Control Points on NNPs	
— 🗀 CCM - Controller Configuration and Management	
– 🗀 (M) Connect To an NNP	
L Commands	

Figure 3-12. CCM

- The Configuration Management Options Help K25_SNMP (Jun-26-1997) <u>O</u>pen... he Same as... none (lose opened configuration Import a configuration... Exit 2880 2912 2944 2976 3008 3040 3072 3104 2010 2040 7704 2688 2720 2368 2400 2432 2464 2496 2528 2560 2592 2624 2656 2048 2080 2112 2144 2176 2208 2240 2272 2304 2336 New configuration choice
- 2. ____ Click on OK, click on file then double click on Import a configuration

Figure 3-13. Importing a Configuration

3. ____ Insert a diskette in drive A, then click on OK

Exporting a Configuration

1. ____ Double click on CCM - Controller Configuration and Management

📱 Menu 🛛 🖉 🗉	
<u>Function Options Help</u>	
🗀 Network Node Processor (NNP) Management	
- 🗀 (M) Install/Remove/Change/Restore LIC/NNP	
– 🗀 Manage Control Points on NNPs	
– 🗀 CCM - Controller Configuration and Management	
– 🗀 (M) Connect To an NNP	
L Commands	%

Figure 3-14. CCM

K. WI					
Effe Configura New Open Save Save	dion <u>M</u> anagem {2 ne :n	ent Options 1 25_SNMP one	Help (Jun-2	26 - 1997)	
Import a confi	guration				
Exit ZTJZ ZTO4	2010 2040	2880 2912	2944 2976	3008 3040	3072 3104
2368 2400	2432 2464	2496 2528	2560 2592	2624 2656	2688 2720
	2048 2080	2112 2144	2176 2208	2240 2272	2304 2336
New configura	ition choice				

2. ____ Click on OK, click on file, then click on Open

Figure 3-15. Selecting a Configuration

3.	Select the	configuration	to be exp	ported, then	click on Export

Name	Date MM-DD-YYYY Time	CCM EC/MCL	
3746mm12	1547 09 1996 16KAT		* <u>N</u> ew
Base v03.0	Aug-09-1996 13:55	V2	
BS12111allmltp2	Aug-08-1996 10:30	V2	Activate.
BS8-BT_SDLC_SW-ALL cases	Jul-15-1996 11:35	V2	Delete
BS8_RT_SDLC_2	Jun-14-1996 15:05	V2	Detete
BS8_RT_SDLC_3	Jun-17-1996 14:15	V2	Modify
BTREG01	Sep-13-1996 14:40	V2	
BTREG01	Sep-23-1996 14:17	V2	Import
BTREG02	Nov-29-1996 08:20	V2	
BTREG02_SAVED	Oct-18-1996 13:31	V2	Export
BTREG032	Dec-09-1996 11:28	V2	
RTREG033	Dec-10-1997 15:51	¥2	- Migrate.
pen selected configuration Close	opened continuation	Sort Canc	et Heto

Figure 3-16. Exporting a Configuration

4. ____ Insert a diskette in drive A, then click on OK

Accessing a Network Node Processor

1. ____ Double click on Connect to an NNP

<u>Function</u> Options Help	
🗀 Network Node Processor (NNP) Management	
- 🗀 (M) Install/Remove/Change/Restore LIC/NNP	
– 🗀 Manage Control Points on NNPs	
CCM - Controller Configuration and Management	
– 🗀 (M) Connect To an NNP	
L Commands	*

Figure 3-17. Accessing a NNP

2. ____ On the following screen, select the NNP (A or B) then click on Connect

🛎 la gaudi	2 /3746-9x0/Con	nect To an NN	2			2
Connection	Messages					
Select the N	NP that you want	to connect via	DCAF: 💓 N	INP-A	💓 NNP-B	
Connect	Disconnect	Close	Eestore	He	łp	

Figure 3-18. Connecting to a NNP

3. ____ Click on NNP Management.

Keystrokes	Session	Active - Keystrokes remote Services <u>He</u> lp	° 151
		Control Point APPPN menu Function Options Help MIP Management - Functions to use MIP Management - Functions to use MIP Management - Functions to use PRAS Trace PRAS	
			×

Figure 3-19. NNP Functions

4. ____ Click on **Session**, and click on **Terminate**. to close a session.

Session	Services	Help	
a name			
Monitor			
Suspend	1		
*			
Termina	ate 🚬 👘	m	
	Session Active Monitor Suspend Termina	Session Services Active Monitor Suspend Terminate	Session Services Help Active Monitor Suspend Terminate

Figure 3-20. Terminating a Session

Accessing IP Commands from the MOSS-E

1. ____ Double click on IP Commands



Figure 3-21. Accessing IP Commands

2. ____ On the following screen, enter the user ID and password (defaults are NNPIP and 37469X0A), then click on **enter**.

You are now able to navigate within the internet protocol environment (for details refer to the *3745/17A-61A* and *3746-900* Basic Operations Guide, SA33-0177 or *3745* Communication Controller Models A and *3746* Expansion Unit Model 900: Migration and Planning Guide, SA33-0356).



Figure 3-22. Telnet Access

Appendix A. Bibliography

Customer Documentation for the 3746 Model 950



Table A-1 (Page 2 of 2). Customer Documentation for the 3746 Model 950				
Operating	and Testing			
	SA33-0356	IBM 3746 Nways Multiprotocol Controller Model 950		
		User's Guide ²		
		Explains how to:		
		 Carry out daily routine operations on Nways controller Install, test, and customize the Nways controller after installation Configure user's workstations to remotely control the service processor using: DCAF program Telnet client program. 		
	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. 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 on-line help.		
	SH11-3081	IBM 3746 Nways Multiprotocol Controller Models 900 and 950		
		Controller Configuration and Management: User's Guide ²		
		Explains how to use CCM and gives examples of the configuration process.		
Managing	Problems			
	On-line information	Problem Analysis Guide		
		An on-line guide to analyze alarms, events, and control panel codes on:		
(<u>0(</u>)6)		 IBM 3745 Communication Controller Models A³ IBM 3746 Nways Multiprotocol Controller Models 900 and 950. 		
	SA33-0175	IBM 3745 Communication Controller Models A³ 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 A³ IBM 3746 Nways Multiprotocol Controller Models 900 and 950. 		
¹ Models 1 ² Documer ³ 3745 Mo	130 to 61A. ntation shipped with the idels 17A to 61A.	3746-950		



Service Documentation for the IBM 3746 Model 950

Table A-	Table A-2 (Page 2 of 3). Service Documentation for the 3746 Model 950				
	SY33-2118	IBM 3746 Nways Multiprotocol Controller Models 900 and 950			
		Multiaccess Enclosure Installation and Maintenance ⁴			
		Provides information on installing and maintaining the Multiaccess Enclosure (MAE).			
	SY33-2124	IBM 3746 Nways Multiprotocol Controller Models 900 and 950			
		<i>Multiaccess Enclosure Installation and Maintenance</i> ⁴ (Starting from EC F12430 and Above)			
		Provides information on installing and maintaining the Multiaccess Enclosure (MAE). For systems with microcode EC F12430 or higher installed.			
	SY33-2112	IBM 3746 Nways Multiprotocol Controller Models 900 and 950			
		Network Node Processor Installation and Maintenance ³ (Based on the 7585 or 3172)			
		Provides information on installing and maintaining the network node processor based on the PS/2 Type 7585 or 3172.			
	SY33-2126	IBM 3746 Nways Multiprotocol Controller Models 900 and 950			
		Network Node Processor Installation and Maintenance ³ (Based on 6275)			
		Provides information on installing and maintaining the network node processor based on the PS/2 Type 6275.			
	SY33-2127	IBM 3745 Communication Controller Models A³ IBM 3746 Expansion Unit Model 900 IBM 3746 Nways Multiprotocol Controller Model 950			
		Service Processor and Network Node Processor₄ Service User's Guide			
		Provides information on installing and maintaining the operational code on service processor, or network node processor. Can be for systems with microcode EC F12380 or higher installed.			
	SY33-2117	IBM 3746 Nways Multiprotocol Controller Models 900 and 950			
		External Cable Reference ⁴			
		Provides references to console and line cables used for connecting the IBM 3746 Models 900 and 950.			
	S135-2015	IBM 3746 Nways Multiprotocol Controller Models 900 and 950			
		Parts Catalog⁴			
		Provides reference information for ordering parts for the IBM 3746 Models 900 and 950.			

Table A-2 (Page 3 of 3). Service Documentation for the 3746 Model 950			
	S135-2014	IBM Controller Expansion	
		Parts Catalog	
		Provides reference information for ordering parts for the controller expansion attached to the IBM 3745 Models A ² , and 3746 Models 900 and 950.	
CD-ROM Bibliography			
	ZK2T-8214	IBM Networking Softcopy Collection Kit	
		Allows service manuals consulting via CD-ROM viewer. EMEA version.	
	ZK2T-8187	IBM Networking Softcopy Collection Kit	
		Allows service manuals consulting via CD-ROM viewer. US version.	
¹ Documentation shipped with the 3746 Model 950			
³ Documentation shipped with the processor			
⁴ Documentation shipped with the 3746 Models 900 and 950			

Customer Documentation for the 3745 (Models 210, 310, 410, 610, 21A, 31A, 41A, and 61A), and 3746 (Model 900)

Table A-3 (Page 1 of 4). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900			
This customer documentation has the following formats:			
Books	Online Books and Diskettes CD-ROM		
Finding Information			
	3745 Models A and 3746 Books		
	Starting with engineering change (EC) F12380, 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 this EC.		
SA33-0172	IBM 3745 Communication Controller Models 210 to 61A IBM 3746 Expansion Unit Model 900		
	Customer Master Index ¹		
	Provides references for finding information in the customer documentation library.		
Evaluating and Configuring			
GA33-0092	<i>IBM 3745 Communication Controller</i> <i>Models 210, 310, 410, and 610</i>		
	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 ² IBM 3746 Nways Multiprotocol Controller Models 900 and 950		
	Overview		
	Gives an overview of connectivity capabilities within SNA, APPN, and IP networking.		
Table A-3 (Page 2 of 4). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900			
---	---	--	
GA33-045	7 IBM 3745 Communication Controller Models A ² IBM 3746 Expansion Unit Model 900 Models 900 and 950		
	Planning Guide		
	Planning for:		
	 Field upgrades Service processor and alert management configuration Network integration (NCP, APPN, and IP control) Physical installation. 		
Preparing Your Site			
GC22-706	4 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 <i>Planning Guide</i> , GA33-0457.		
GA33-012	7 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 Operati	ion		
GA33-0400	0 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 Models³ 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	<i>Line Interface Coupler Type 5 and Type 6</i> <i>Portable Keypad Display</i>		
	Migration and Integration Guide		
	Contains information for moving and testing LIC types 5 and 6.		

Table A-3 (Page 3 of 4). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900		
	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.
Customizi	ing Your Control Prog	ram
	SA33-0178	Guide to Timed IPL and Rename Load Module
		Provides VTAM procedures for:
		Scheduling an automatic reload of the 3745Getting 3745 load module changes transparent to the operations staff.
Operating	and Testing	
	SA33-0098	IBM 3745 Communication Controller All Models⁴
		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. 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.

Table A-3 (Page 4 of 4). Customer Documentation for the 3745 Models X10 and X1A, and 3746 Model 900		
	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.
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.
	On-line Information	Problem Analysis Guide
		An online guide to analyze alarms, events, and control panel codes on:
(<u> </u>		 IBM 3745 Communication Controller Models A² IBM 3746 Nways Multiprotocol Controller Models 900 and 950.
	SA33-0175	IBM 3745 Communication Controller Models A² 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 A² 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 A-4. Additional Customer Documentation for the 3745 Models 130 to 17A	
This customer documentation ha	as the following format:
	Books
Finding Information	
SA33-0142	IBM 3745 Communication Controller Models 130, 150, 160, 170, and 17A IBM 3746 Nways Multiprotocol Controller Model 900
	Customer Master Index ¹
	Provides references for finding information in the customer documentation library.
Evaluating and Configuring	
GA33-0138	IBM 3745 Communication Controller Models 130, 150, 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 <i>Connection and Integration Guide</i> , SA33-0129.
¹ Documentation shipped with the 3745.	

Service Documentation for the IBM 3745 (Models 210, 21A, 310, 31A, 410, 41A, 610, and 61A) and 3746 (Model 900)

Table A-	5 (Page 1 of 4). Servi	ce Documentation for the 3745 Models x10 and x1A, and 3746 Model 900
This service documentation has the following formats:		
	B o o k s	Online Books and CD-ROM
		3745 Models A and 3746 Books
		Starting with engineering change (EC) F12380, 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 this EC.
	SY33-2080	IBM 3745 Communication Controller Models 210 to 61A
		Service Master Index ¹
		Provides references for finding information in the IBM 3745 Models X10 and X1A shipping group documentation.
	SY33-2057	IBM 3745 Communication Controller Models 210 to 61A
		Installation Guide ¹
		Provides instructions for installing or relocating the IBM 3745 Models X10 and X1A.
	SY33-2114	IBM 3746 Nways Multiprotocol Controller Model 900
		Installation Guide ²
		Provides instructions for installing or relocating a 3746-900.
	SY33-2116	IBM 3746 Nways Multiprotocol Controller Model 900
		Service Guide ²
		Provides procedures for isolating and fixing the IBM 3746-900 problems.
	SY33-2055	<i>IBM 3745 Communication Controller</i> <i>Models 210, 310, 410, and 610</i>
(°)		IBM 3746 Expansion Units Models A11, A12, L13, L14, and L15
		Service Functions ¹
		Describes MOSS functions using the IBM 3745 Models X10 and X1A consoles.

Table A	-5 (Page 2 of 4).	Service Documentation for the 3745 Models x10 and x1A, and 3746 Model 900
	SY33-2054	IBM 3745 Communication Controller Models 210 to 61A
		Maintenance Information Procedures ¹
		Provides procedures for isolating and fixing the IBM 3745 Models X10 and X1A problems.
	SY33-2115	IBM 3745 Communication Controller Models A ³ IBM 3746 Expansion Unit Model 900 IBM 3746 Nways Multiprotocol Controller Model 950
		Service Processor Installation and Maintenance⁴ (Based on the 7585, 3172, 9585, or 9577)
		Provides information on installing and maintaining the service processor based on PS/2 Types 7585, 3172, 9585, or 9577. Can be for systems with microcode that has up to and including EC D46130 (any level) installed.
	SY33-2120	IBM 3745 Communication Controller Models A ³ IBM 3746 Expansion Unit Model 900 IBM 3746 Nways Multiprotocol Controller Model 950
		Service Processor Installation and Maintenance⁴ (Based on the 7585, 3172, or 9585)
		Provides information on installing and maintaining the service processor based on PS/2 Types 7585, 3172, or 9585. Can be for systems with microcode EC F12380 or higher installed.
	SY33-2125	IBM 3745 Communication Controller Models A ³ IBM 3746 Expansion Unit Model 900 IBM 3746 Nways Multiprotocol Controller Model 950
		Service Processor Installation and Maintenance⁴ (Based on the 6275)
		Provides information on installing and maintaining the service processor based on PS/2 Type 6275. Can be for systems with microcode EC F12380 or higher installed.
	SY33-2127	IBM 3745 Communication Controller Models A ³ IBM 3746 Expansion Unit Model 900 IBM 3746 Nways Multiprotocol Controller Model 950
		Service Processor and Network Node Processor⁴ Service User's Guide
		Provides information on installing and maintaining the operational code on service processor, or network node processor. Can be for systems with microcode EC F12380 or higher installed.

SY33-2118	IBM 3746 Nways Multiprotocol Controller Models 900 and 950
	Multiaccess Enclosure Installation and Maintenance ⁴
	Provides information on installing and maintaining the Multiaccess Enclosure (MAE).
SY33-2124	IBM 3746 Nways Multiprotocol Controller Models 900 and 950
	<i>Multiaccess Enclosure Installation and Maintenance</i> ⁴ (Starting from EC F12430 and Above)
	Provides information on installing and maintaining the Multiaccess Enclosure (MAE). For systems with microcode EC F12430 or higher installed.
SY33-2112	IBM 3746 Nways Multiprotocol Controller Models 900 and 950
	Network Node Processor Installation and Maintenance ⁴ (Based on the 7585 or 3172)
	Provides information on installing and maintaining the network node processor based on the PS/2 Type 7585 or 3172.
SY33-2126	IBM 3746 Nways Multiprotocol Controller Models 900 and 950
	Network Node Processor Installation and Maintenance ⁴ (Based on 6275)
	Provides information on installing and maintaining the network node processor based on the PS/2 Type 6275.
SY33-2056	<i>IBM 3745 Communication Controller</i> <i>Models 210 to 61A</i>
$\square \bigcirc$	Maintenance Information Reference ¹
	Provides in-depth hardware reference information on the IBM 3745 Models X10 and X1A.
SY33-2075	IBM 3745 Communication Controller All Models ⁵
	External Cable References ¹
	Provides references to console and line cables used for connecting the IBM 3745 Models 130 to 61A.
SY33-2117	IBM 3746 Nways Multiprotocol Controller Models 900 and 950
$\square (\circ)$	External Cable Reference ⁶
	Provides references to console and line cables used for connecting the IBM 3746 Models 900 and 950.

Table A-5 (Page 4 of 4). Service Documentation for the 3745 Models x10 and x1A, and 3746 Model 900		
S135-2015	IBM 3746 Nways Multiprotocol Controller Models 900 and 950	
	Parts Catalog ⁶	
	Provides reference information for ordering parts for the IBM 3746 Models 900 and 950.	
S135-2010	<i>IBM 3745 Communication Controller Models 210 to 61A</i>	
	Parts Catalog ¹	
	Provides reference information for ordering IBM 3745 Models X10 and X1A parts.	
S135-2014	IBM Controller Expansion	
	Parts Catalog	
	Provides reference information for ordering parts for the controller expansion attached to the IBM 3745 Models A ³ , and 3746 Models 900 and 950.	
CD-ROM Bibliography		
ZK2T-8214	IBM Networking Softcopy Collection Kit	
	Allows service manuals consulting via CD-ROM viewer. EMEA version.	
ZK2T-8187	IBM Networking Softcopy Collection Kit	
	Allows service manuals consulting via CD-ROM viewer. US version.	
 ¹ Documentation shipped with the 3745. ² Documentation shipped with the 3746-900. ³ 3745 Models 17A to 61A. ⁴ Documentation shipped with the processor. 		
⁵ 3745 Models 130 to 61A.		
 Documentation shipped with the 3746 Models 900 and 950. 		

Additional Service Documentation for the IBM 3745 Models 130, 150, 160, 170, and 17A

Table A-6 (Page 1 of 2). Additional Service Documentation for the 3745 Models 1x0 and 17A		
This service documentation ha	as the following formats:	
B o o k s	Online Books and CD-ROM	
SY33-2079	IBM 3745 Communication Controller Models 130, 150, 160, 170, and 17A	
	Service Master Index ¹	
	Provides references for finding information in the IBM 3745 Models 1X0 and 17A shipping group documentation.	
SY33-2067	<i>IBM 3745 Communication Controller</i> <i>Models 130, 150, 160, 170, and 17A</i>	
	Installation Guide ¹	
	Provides instructions for installing or relocating the IBM 3745 Models 1X0 and 17A.	
SY33-2069	<i>IBM 3745 Communication Controller</i> <i>Models 130, 150, 160, and 170</i>	
	Service Functions ¹	
	Describes MOSS functions using the IBM 3745 Models 1x0 and 17A consoles.	
SY33-2070	IBM 3745 Communication Controller Models 130 to 17A	
	Maintenance Information Procedures ¹	
	Provides procedures for isolating and fixing the IBM 3745 Models 1X0 and 17A problems.	
S135-2012	IBM 3745 Communication Controller Models 130 to 17A	
	Parts Catalog ¹	
	Provides reference information for ordering IBM 3745 Models 1X0 and 17A parts.	
SY33-2066	<i>IBM 3745 Communication Controller</i> <i>Models 130, 150, 160, and 170</i>	
	Hardware Maintenance Reference ¹	
	Provides in-depth hardware reference information on the IBM 3745 Models 1X0 and 17A.	

Table A-6 (Page 2 of 2). Additional Service Documentation for the 3745 Models 1x0 and 17A

¹ Documentation shipped with the 3745.

Glossary

ac. alternating current

ACPW. AC power (box)

AFD. airflow detector

alarm. A message sent to the MOSS console. In case of an error a reference code identifies the nature of the error.

alert. A message sent to the host console. In case of an error a reference code identifies the nature of the error.

AMD. air moving device

APPN. advanced peer-to-peer networking

ARC. active remote connector

ARC1A1. ARC V.24 DCE attachment with 5 meter tethered cable

ARC1A2. ARC V.24 DCE attachment with 15 meter tethered cable

ARC1B. ARC V.24 DTE attachment with 15 meter tethered cable

ARC1C. ARC V.24 DCE 3745 interface with 5 meter tethered cable

ARC1D. ARC V.24 DTE 3745 interface with 5 meter tethered cable

ARC1E. ARC V.24 3174 AEA interface (1)

ARC1F. ARC V.24 3174 PCA EIA interface (1)

ARC2A. ARC V.25 autocall interface with 5 meter tethered cable

ARC2C. ARC V.25 autocall interface 3745 with 5 meter tethered cable

ARC3A1. ARC V.35 DCE attachment with 5 meter tethered cable

ARC3A2. ARC V.35 DCE attachment with 15 meter tethered cable

ARC3B. ARC V.35 DTE attachment with 15 meter tethered cable

ARC3C. ARC V.35 DCE 3745 interface with 5 meter tethered cable

ARC3D. ARC V.35 DTE 3745 interface with 5 meter tethered cable

ARC4A1. ARC X.21 DCE attachment with 5 meter tethered cable

ARC4A2. ARC X.21 DCE attachment with 15 meter tethered cable

ARC4B. ARC X.21 DTE attachment with 15 meter tethered cable

ARC4C. ARC V.21 DCE 3745 interface with 5 meter tethered cable

ARC4D. ARC V.21 DTE 3745 interface with 5 meter tethered cable

ARC5A. Reserved

ARC5B. Reserved

ARC5C. ARC RS-422 3708 interface (or RJ-11 connection) (1)

ARC5D. ARC RS-422 IBM Cabling System interface (1)

ARC6A. ARC V.25 autocall interface with 15 meter tethered cable

ARC6C. ARC V.25 autocall 3745 interface with 15 meter tethered cable

BA. basic access

BAS. basic board

BATS. basic assurance tests

BER. box event record

BLPU. basic level packaging unit

BMI. bit multiplex interface

box event record (BER). Information about an event detected by the controller. It is recorded on the disk/diskette and can be displayed on the operator console for event analysis.

bps. bits per second

BSC. binary synchronous communication

BSI. bus synchronism interface

C. Celsius

C&SM. customer and service information

CA. channel adapter

cache. A high-speed buffer storage that contains frequently accessed instructions and data; it is used to reduce access time.

CB. circuit breaker

CBA. controller bus adapter

CBC. controller bus coupler

CBR. circuit burst request

CBSA. controller bus and service adapter (CBSP+CBC+TIC3)

CBSP. controller bus and service processor

CBTRA. controller bus and token-ring adapter (TRP+CBC+TIC3)

CBTRM. cable terminator (IOC and DMA buses)

CCITT. Comite Consultatif International Telephonique et telegraphique

CCU. central control unit

CDF. configuration data file (3745)

CDF-E. configuration data file extended (37CS)

CE. customer engineer

CEPT. Comite Europeen des Postes et Telecommunications

CLA. communication line adapter (CLP+LICnn)

CLDP. controller load/dump program

clear channel. Mode of data transmission where the data passes through the DCE and network, and arrives at the receiving communication controller (for example, the IBM 3745) unchanged from the data transmitted. The DCE or network can modify the data during transmission because of certain network restrictions, but must ensure the received data stream is the same as the transmitted data stream.

CLP. communication line processor

CMIP. common management interface protocol

CNM. communication network management

CP. 1.communication processor 2.control program 3.circuit protector 4.control point

CPLR. coupler

CPN. customer problem number

CPx. FRU name of circuit protector

- CRC. cyclic redundancy check character
- CS. connectivity switch
- CSA. common subassembly
- CSB. connectivity switch bus
- CSC. connectivity switch cable
- CSCE. connectivity switch cable extension
- **CSM**. centralized support module
- CSP. central service point
- CSS. control subsystem (3745)
- CTDA. configuration target device (processor) address
- dc. direct current

DCAF. Distributed Console Access Facility (licensed program)

- DCCS. DC to connectivity subsystem
- DCE. data circuit-terminating equipment
- DCDP. DC distribution and protection (box)
- DCM. diagnostic control monitor
- DCPW. DC power box
- DICO. DMA IOC connection card
- DM. distribution manager
- DMA. direct memory access
- DS. data storage
- **DSB**. data storage bus
- DSI. data storage interface
- DSM. data storage manager
- DSS. data storage interface for SBA

DSU. data service unit (DCE-like for high-speed communication lines)

- DTE. data terminal equipment
- EC. engineering change

- EE. extended edition
- EIA. Electronic Industries Association
- EPO. emergency power-off
- EPROM. eraseable PROM
- ESCA. ESCON adapter
- ESCC. ESCON coupler
- ESCON*. Enterprise Systems Connection
- ESCP. ESCON processor
- ESD. electrostatic discharge
- EXP. expansion enclosure
- EXP1. first expansion enclosure
- EXP2. second expansion enclosure
- FCS. frame check sequence
- FRU. field-replaceable unit
- HCS. Hardware Central Service
- HDLC. high-level data link control
- hex. hexadecimal

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*.

HPPB. high-performance parallel bus

- HSC. hardware support center
- **HSF**. hardware service facility

Hz. Hertz

IBM service representative. An individual in IBM who performs maintenance services for IBM products or systems.

IEEE. Institute of Electrical and Electronics Engineers

IML. initial microcode load

initial microcode load (IML). The process of loading the microcode into a scanner or into MOSS.

initial program load (IPL). The initialization procedure that causes the 3745 control program to commence operation. IO. input/output IOC. input/output control IOCB. input/output control bus IPL. initial program load **IRAM.** instruction random access memory ISO. International Organization for Standardization kbps. kilobits per second LA. line adapter LAN. local area network LCB. line connection box LED. light-emitting diode LIC. line interface coupler LICx. FRU name of line interface coupler type x (3745) LLC. logical link control LS. local storage LSA. link service architecture LSCT. LIM software configuration table LSM. local storage manager LSSD. level-sensitive scan design (total hardware latches chain collection) LU. logical unit MAC. medium access control MAE. Multiaccess enclosure MAP. maintenance analysis-procedure MAU. multistation access unit MB. megabyte; 1 048 576 bytes MCF. microcode fix

- MCL. microcode change level
- MES. miscellaneous equipment specification
- MG. motor generator

MI. maskable interrupt

microcode. A program, that is loaded in a processor (for example, the MOSS processor)

MLA. MOSS LAN adapter

MMIO. memory mapped input/output

maintenance and operator subsystem (MOSS). The part of the controller that provides operating and servicing facilities to the customer's operator and the IBM service representative.

MOSS. maintenance and operator subsystem (3745)

MOSS-E. maintenance and operator subsystem extended (37CS)

NA. network addressable

NCP. Network Control Program

NDM. netview distribution manager

NetView. An IBM licensed program used to monitor a network, manage it, and diagnose its problems.

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

NMI. non-maskable interrupt

NMVT. network management vector transport

NNP. network node processor

NODA. next origin device (processor) address

NPM. NetView performance monitor

NTDA. next target device (processor) address

OEMI. original equipment manufacturer's interface

OLT. online test

online tests. Testing of a remote data station concurrently with the execution of the user's programs (that is, with only minimal effect on the user's normal operation).

OSI. open system interconnect

PA. primary access

PBC. packet burst control

PBG. packet burst grant

PCR. 1.pico-processor command register 2.power check reset

PICA. process and intertask communication architecture

- PMH. problem management hardware
- PN. part number
- PNL. control panel
- POR. power-ON reset
- PP. pico-processor
- PPB. primary power box
- PPC. PowerPC (system card of MAE)
- PRC. processor
- PRDA. packet request device (processor) address
- PROM. programable read-only memory
- **PS**. power supply
- PSI. packet switch interface
- PSN. public switched network
- PTCE. product-trained CE
- PTF. program temporary fix
- **PTT**. Post, Telephone and Telegraph (agency)
- PU. physical unit

RETAIN. Remote Technical Assistance Information Network

- RNR. receiver not ready
- RPL. remote program load
- **RPO**. remote power-off
- **RSC**. remote service center
- RSF. remote support facility

RVX. stands for RS232, RS422, V.24-35, X.21-2x connections

- SAC. switch adapter card
- SATS. specific assurance tests
- SBA. switch bus adapter

- SBI. switch bus interface
- SC. switch control
- SDLC. synchronous data link control
- SIE. switch interface extender
- SL. service logic
- SNA. Systems Network Architecture
- SNMP. Simple network management protocol
- SPD1. signal and power distribution type 1
- **SPD2**. signal and power distribution type 2
- SPDL. signal and power distribution card in LCB
- SPS. service and power support
- SQL. structured query language
- SRC. system reference code
- SSA. system service architecture
- SSCP. system services control point
- STCn. signal transfer card n
- SSS. subsystem support service

Systems Network Architecture (SNA). The

description of the logical structure, formats, protocols, and operational sequences for transmitting information through a user application network. The structure of SNA allows the users to be independent of specific telecommunication facilities.

- TB. terminator block
- TDM. time division multiplexing
- TDR. technical data record
- TERC. terminator card
- **TIC1**. token-ring interface coupler type 1 (3745) running at speed of 4 Mbits

TIC2. token-ring interface coupler type 2 (3745) running at speed of 4 or 16 Mbits

TIC3. token-ring interface coupler type 3 (37CS) running at speed of 4 or 16 Mbits

time out. The time interval allotted for certain operations to occur.

- TPS. two-processor switch
- TR. token-ring

TRA. token-ring adapter (TRP+TIC3)

- TRFM. transformer
- TRP. token-ring processor
- TRS. transmitter/receiver subassembly
- UEPO. unit emergency power-off
- URSF. universal remote support facility
- UTP. Unshielded twisted pair cable
- V. volt
- V.24. CCITT V.24 recommendation
- V.25. CCITT V.25 recommendation
- V.28. CCITT V.28 recommendation
- V.35. CCITT V.35 recommendation
- VPD. vital product data
- VTAM*. Virtual Telecommunications Access Method
- VTL. vendor technology logic
- W. watt
- X.21. CCITT X.21 recommendation
- X.25. CCITT X.25 recommendation
- YZxxx. wiring diagram

Index

С

Configuration parameters 2-4, 2-5

D

Delete The engineering data 2-6

Ε

EEPROM Upgrade/downgrade 2-15 overview 2-15 engineering data 2-6 deleting 2-6 saving 2-6

F

Function accessing a Network Node Processor 3-11 accessing CCM 3-8 accessing IP commands 3-13 accessing the Network Node Processor functions 1-10 activate a configuration 3-7 changing the active code 2-8 changing the active LIC on a NNP-A 3-5 dump a control point 3-7 exporting a configuration 3-9 importing a configuration 3-8 installing/removing a NNP-A 3-2 modifying IP parameters 3-6 restoring the LIC on a NNP-A 3-4 shutdown and restart a NNP-A 3-7 start / stop a control point 3-7 stop and restart a control point 3-7 upgrading the LIC on a NNP-A 3-3 **Functions** accessing the 3745 maintenance controller functions 1-13 accessing the 3746-9x0 controller maintenance functions 1-11 accessing the Service Processor maintenance functions 1-8

Information displaying the code level 2-2 search information 1-4 Introducing the Service Processor 1-1

L

Licensed Internal Code installing a new version 2-7

Μ

Machine status 3745 status display 1-6 3746-900 status display 1-5 Maintaining the Service Processor 2-1 Maintenance procedures 2-2 Managing the Network Node Processor and the control point 3-1 MCF on the LIC applying MCFs on the LIC 2-11 removing MCFs on the LIC 2-14

Ρ

Password 2-17 CCM/Telnet user profiles management 2-17 changing the controller and maintenance passwords 2-17 changing the DCAF password 2-20 restoring the passwords 2-21

R

restoring data on the hard disk RETAIN Manual Call to RETAIN from a 3745 - XXA 2-9 Manual Call to RETAIN from a 3746-9x0 2-10

S

Saving/restoring data on the hard disk Restoring the non-active code from a CD-ROM 2-3 Service Processor general information 1-2 Shutting down the Service Processor 2-2

Readers' Comments — We'd Like to Hear from You

3745 Communication Controller Models A 3746 Expansion Unit Model 900 3746 Nways Multiprotocol Controller Model 950 Service Processor and Network Node Processor Service User's Guide

Publication No. SY33-2127-00

Please send us your comments concerning this book. We will greatly appreciate them and will consider them for later releases of the present book.

If you prefer sending comments by FAX or electronically, use:

- FAX: 33 4 93 24 77 97
- IBM Internal Use: LGERCF at IBMFR
- Internet: lgercf@fr.ibm.com

In advance, thank you.

Your comments:

Name

Address

Company or Organization



Fold and Tape

Please do not staple

Fold and Tape



IBM France Centre d'Etudes et Recherches Service 0798 - BP 79 06610 La Gaude France

Fold and Tape

Please do not staple

Fold and Tape



Part Number: 26L0161

Printed in Denmark by IBM Danmark A/S





