

Field Feature Bill of Material

Installing RPQ 7L1430 by Upgrading the Multiaccess Enclosure FC 3001 with the MultiAccess Services (MAS) Code

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3745 FFBM	PN 10K8620 1 of 48	EC F70105 16 NOV 1999				
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Before Installation (Steps 1-8)

1.0 Machines Affected

3746 Models 9x0 with a Multiaccess Enclosure (FC 3001) installed.

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

2.1.1 Software Prerequisite

EC	Title
F12720	Microcode (Minimum level for the MAE FC 3001)

Checkpoint: Check that the EC Level is F12721.000 or higher.

Note: Refer to the *Service Processor Installation and Maintenance* or the *Service User's Guide* manual, shipped with the service processor and use the procedure: **Displaying the EC Level of the Code Installed on the Hard Disk.**

2.1.2 Hardware Prerequisite

MAE FC 3001 installed.

2.2 Concurrent ECs

None

2.3 Companion ECs

(May be installed together)

None

3.0 BMs to be Installed

FFB/M	Title
10K8620	Installing the Multiaccess Service (MAS) code into the Multiaccess Enclosure FC 3001.
10K8594	Provide documentation and labels
10K8621	System card with no memory installed
31L3624	Upgrade 128MB DIMM

31L3625	Upgrade 256MB DIMM
10K8597	PCMCIA modem for U.S.A. and Canada
10K8598	PCMCIA modem for Austria
10K8599	PCMCIA modem for Australia
10K8601	PCMCIA modem for Belgium
10K8602	PCMCIA modem for Denmark
10K8603	PCMCIA modem for Finland
10K8604	PCMCIA modem for France
10K8605	PCMCIA modem for Germany
10K8606	PCMCIA modem for HongKong
10K8607	PCMCIA modem for Ireland
10K8608	PCMCIA modem for Italy
10K8609	PCMCIA modem for Japan
10K8610	PCMCIA modem for Korea
10K8611	PCMCIA modem for Luxemburg
10K8612	PCMCIA modem for Netherlands
10K8613	PCMCIA modem for New Zealand
10K8614	PCMCIA modem for Norway
10K8615	PCMCIA modem for Sweden
10K8616	PCMCIA modem for Switzerland
10K8617	PCMCIA modem for U.K.
10K8600	PCMCIA modem for Israel

4.0 Preparation

4.1 Retrieving the MAS Code

You must have previously downloaded the MAS code Version 3 Release 3 or higher onto your ThinkPad disk.

To retrieve the MAS code latest version:

- ___ 1. Connect to the following URL:
www.networking.ibm.com/support/products.nsf/techsupport
- ___ 2. Select **2216** from the product list.
- ___ 3. Follow the instructions to retrieve the MAS code.

Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.

4.2 Checking the FFBM List

Check the FFBM that you have received:

- FFBM 10K8594 (mandatory)
- FFBM For PCMCIA modem according to your country
- Use the following table to determine what additional FFBM you should have received according to the MAE configuration and customer order.

Actual System card Installed on MAE	If 128MB Memory Upgrade Requested (1 or 2)	If 256MB Memory Upgrade Requested (1 or 2)
	Received FFBM(s) to Install	Received FFBM(s) to Install
FRU PN 85H9682 or PN 85H9744 FRU PN 25L5177 or PN 25L5176	FFBM 31L3624 (1 or 2)	FFBM 31L3625 (1 or 2) and FFBM 10K8621
FRU PN 25L4784 or PN 25L4783 FRU PN 31L4338 or PN 31L4336	FFBM 31L3624 (1 or 2)	FFBM 31L3625 (1 or 2)

If an FFBM is missing, do not start the installation and call your support.

Check all items listed on the BM(s) to determine that all parts have been received according to the customer order.

Check carefully the tools required for the installation instructions. See 8.0, "Tools/Material Required" on page 7.

4.3 Getting the PE Password

In order to log onto the MOSS-E in PE mode, you must have the PE password.

4.4 Managing non-Active CCM Configurations

After the MAE will have been removed using the MOSS-E **Remove MAE** function, it will be no longer possible to open CCM configurations that include MAE definitions. Therefore, according to her/his requirements, the customer can decide to:

- Delete all the CCM configurations containing MAE definitions, except the active one.
- Keep record of existing CCM configurations and, in particular, of the MAE definitions, by exporting the desired configurations onto a diskette.
- Modify all the CCM configurations by removing the MAE definitions in order to make use of the 3746-9x0 resource configuration later.

About the active configuration

It is further explained (on page 42) how to modify the active CCM configuration.

4.4.1 Modifying CCM Configurations

If the customer decides to modify the CCM configurations including MAE definitions, tell the customer to perform the following procedure.

- ___ 1. From the CCM main window, select **File→Open....**
- ___ 2. From the configuration list, select the configuration(s) to be saved onto a diskette and click on **Export....**
- ___ 3. In the **Path selection** window, select the target path (drive and directory) and press **OK**.
- ___ 4. When complete, the configuration list window is re-displayed.
- ___ 5. Select a non-active configuration to be modified and click on **Open selected configuration**.
- ___ 6. Select the MAE coupler and click on the right button of the mouse.
- ___ 7. Select the **Delete MAE** option.
- ___ 8. Click on **Yes** to confirm the MAE deletion.
- ___ 9. Select **File→Save....**
- ___ 10. When complete, press **OK**.
- ___ 11. Select **File→Close opened configuration...**
- ___ 12. To modify another configuration, go to next step. Otherwise, the procedure is complete.
- ___ 13. From the CCM main window, select **File→Open....** to display configuration list window. Repeat step 5 through step 11 until all the desired configurations have been modified.



The customer must be aware that it will be no longer possible to open CCM configurations including MAE definitions after the MAE will have been removed using the MOSS-E MAE Remove function.

5.0 Programming

None.

6.0 Purpose and Description

6.1 Purpose

To support the Multiaccess Services (MAS) functions.

6.2 Description

1. De-install and install MAE hardware components in order to support the MAS code.
2. Download into the MAE the MAS code V3R3 or higher.

7.0 Installation Time

The complete installation is MAE traffic-disruptive.

FFBM	MAE Hrs.	System Hrs.	Nbr of CE
10K8620	2 hours	0	1

8.0 Tools/Material Required

You must have:

- A CE ThinkPad with the FTP server installed and customized (PWS Personnel Web Microsoft™ with standard FTPD).
- A PMCIA token-ring card to connect to the customer token-ring LAN
- An internet connection
- A blank formatted diskette.

Installation (Steps 9-11)

9.0 Safety

Review the **Safety Notices** and the **Safety Inspection Procedures** located at the beginning of the *Multiaccess Enclosure Installation and Maintenance Guide*, SY33-2124.

10.0 Details of Installation

10.1 Before You Start

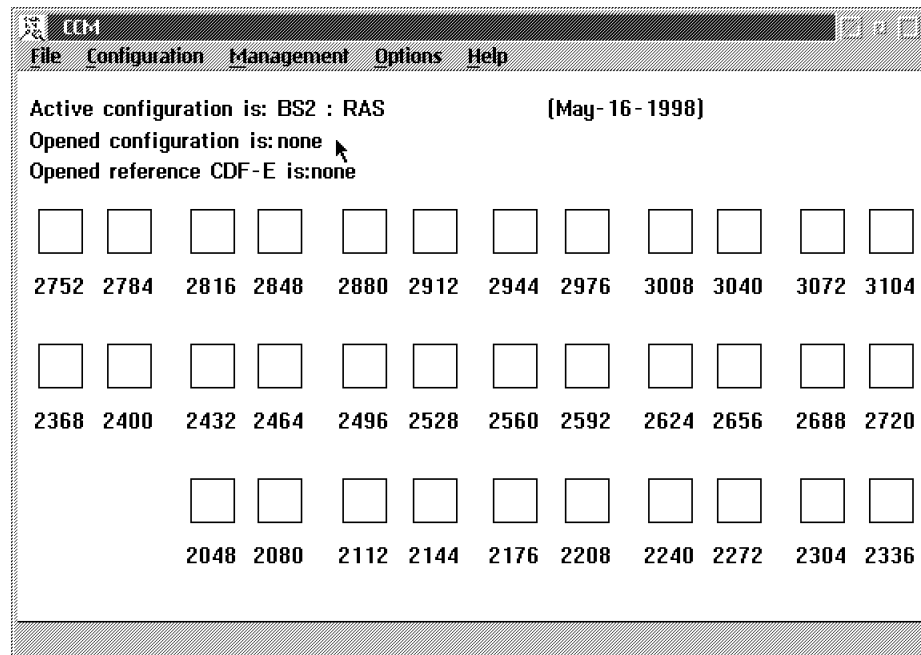
Check that the customer has saved and modified or deleted the CCM configurations that included MAE definitions, as explained in 4.4, "Managing non-Active CCM Configurations" on page 5.

10.2 Saving the Active MAE Configuration

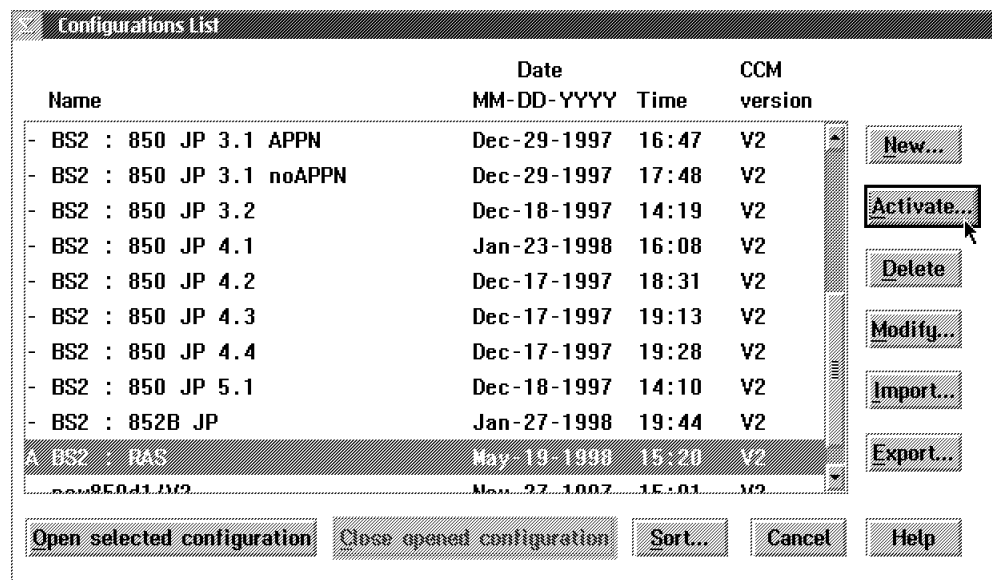


Log onto the MOSS-E in PE mode.

- ___ 1. Ask the customer to stop all the traffic flowing through the Multiaccess Enclosure.
- ___ 2. From the **3746-9x0** menu,
- ___ 3. Click on the **Network Node Processor (NNP) Management** option.
- ___ 4. Double click on the **CCM Controller Configuration and Management** option.
- ___ 5. The **CCM** window is displayed:



- ___ 6. Click on **File** in the title bar, then select **Open**. The **Configuration List** window is displayed:



- ___ 7. Click on the **Open Selected Configuration**
- ___ 8. Record the MAE adapter position for later use.
- ___ 9. Return to the **3746-9x0** menu.
- ___ 10. Click on **Functions to use under PE Guidance**.
- ___ 11. Double click on **OS/2 Window**.

- ___ 12. Check the directory (either **Q:\NODE\MOSSE\DDM0** or **DDM1**) in which the MAExxxx.CSF file is stored. Use the dir command.
- ___ 13. According to the MAExxxx.CSF location, change the current directory to **Q:\NODE\MOSSE\DDM0** or **DDM1** by typing in:
 - a:
 - cd node
 - cd mosse
 - cd ddm0
 - or
 - cd ddm1
- ___ 14. Insert a diskette into the A disk drive of the service processor.
- ___ 15. Copy the MAE configuration to the diskette by typing in:
 - Q:\NODE\MOSSE\DDM>copy MAExxxx.CSF a:\

Note: xxxx stands for the MAE adapter position in the 3746-9x0 (SIE), previously recorded.
- ___ 16. When the file is copied, reduce the OS/2 window, then continue with next step.

10.3 Recording the IP Addresses

- ___ 1. Double-click on the Service Processor object icon.
- ___ 2. Select the **Configuration Management** item, then double click on **SP customization**.
- ___ 3. Check **Service LAN addresses**, then click on **Next>>**.

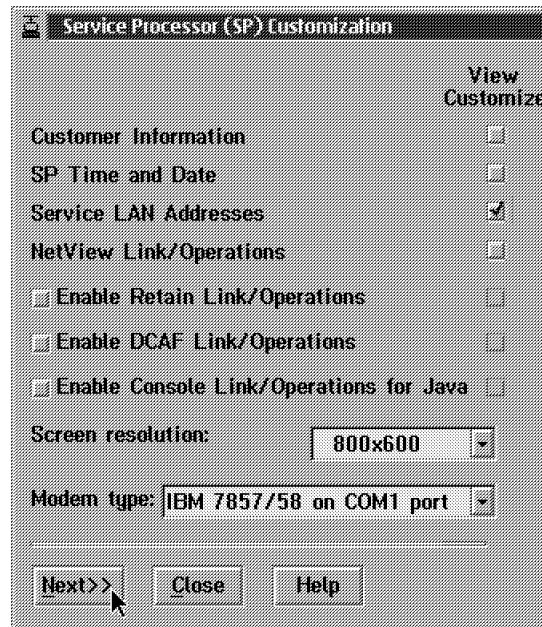


Figure 1. Service Processor Customization

- ___ 4. Record the IP address of the **Service Processor**, **MAE**, **Router** (if any) and the **Subnet mask**.

	IP address	Subnet mask	Hostname	UAA/LAA
Service Processor:	9.100.77.71	255.255.255.0	SP11111	400000631111
NNP-A:	9.100.77.72	255.255.255.0	CA097474	
NNP-B:	not installed			
TIC3 2080:	9.100.77.73	255.255.255.0		
SP default router:	9.100.77.1			
MAE:	9.100.77.74	255.255.255.0	DA097474	

LAN Manager
Do you have a LAN manager? ☐ Yes ☒ No
C&SM LAN ID:

<
>
>

Figure 2. Service LAN addresses

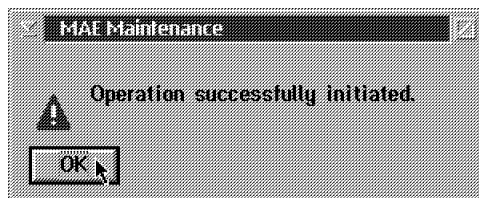
- 5. Exit from SP customization by successively clicking on **Previous**, **Close**, and **No**.

10.4 Removing the MAE

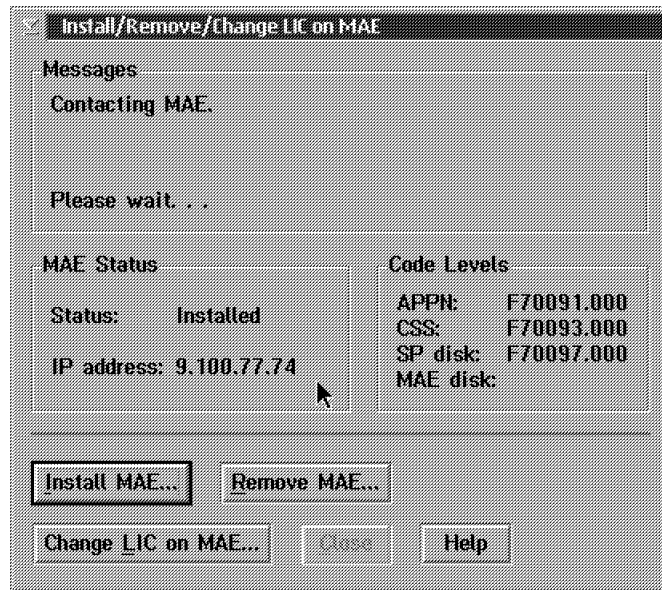
- ___ 1. Using the Service Processor, select from the MOSS-E View the **3746/9x0 Menu**.
- ___ 2. Select the **Multiaccess Enclosure (MAE) Management** item.
- ___ 3. Double-click on the **Perform Maintenance on MAE** to display the following window:



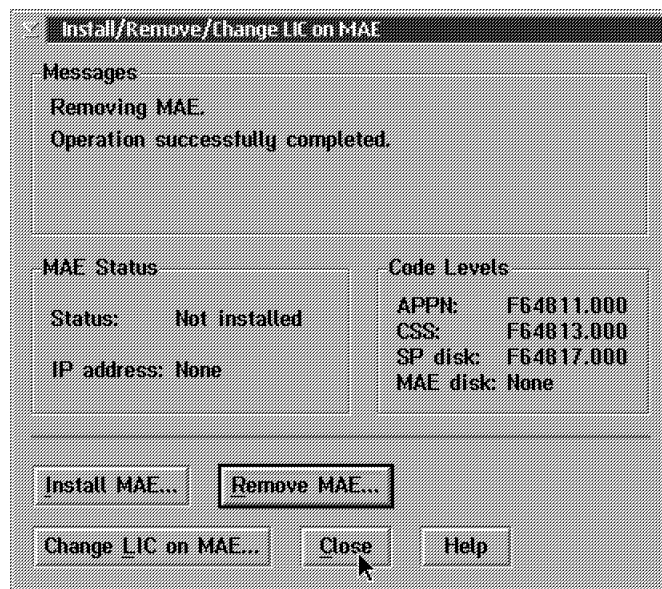
- ___ 4. Click on **Yes**. The following window is displayed:



- ___ 5. Click on **OK**.
- ___ 6. You then receive an alarm message saying: "MAE Concurrent Maintenance in Progress".
- ___ 7. Click on **OK**.
- ___ 8. Return to the **3746/9x0 Menu**.
- ___ 9. Double-click on **Install/Remove/Change LIC on MAE**
- ___ 10. Wait until the following window is displayed:



- ___ 11. Click on **Remove MAE**
- ___ 12. On the following window, click on **Yes** to confirm.
- ___ 13. Wait until the message "Operation successfully completed" is displayed on the window.



- ___ 14. Click on **Close**.

10.5 Removing the SIE and SAC Cards

Removing the SIE card

- ___ 1. Power OFF the MAE.
- ___ 2. Locate the SIE cassette, which can be in any processor (PRC) position.

Warning!

Use the ESD kit and procedures.

- ___ 3. Loosen the screws that secure the cables.
- ___ 4. Unplug the cable.
- ___ 5. Using the labels on the doors for reference, press the two unlocking buttons and pull out the SIE cassette.

Removing the SAC card

- ___ 6. Unplug the SAC cable.
- ___ 7. Loosen the thumbscrews of the SAC.
- ___ 8. Pull out the SAC card.

Note: During the removal of the SIE card an alarm is generated and displayed on the service processor display. Click on **OK**.

10.6 Before you Go Further

According to the FFBM you have received, do one of the following:

- If you have received the FFBM 31L3624 for 128MB memory upgrade or FFBM 31L3625 for 256MB memory upgrade, then go to 10.7, "Removing the System Card."
- Otherwise, go to 10.12, "Downloading the MAS Code on the Service Processor Hard Disk" on page 30.

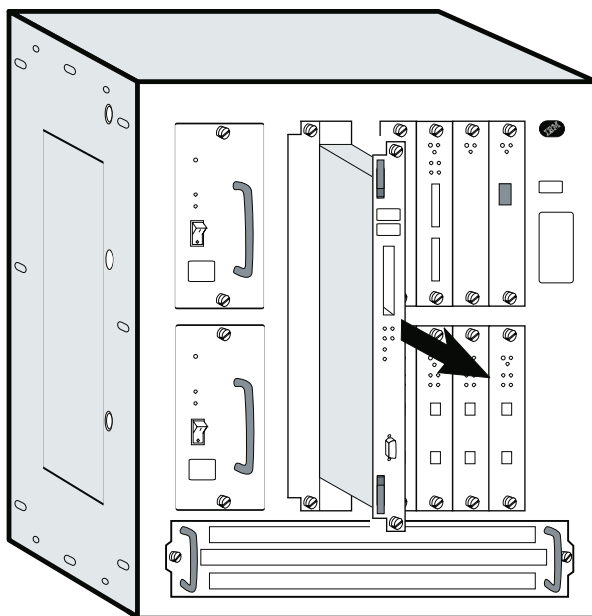
10.7 Removing the System Card



Electrostatic discharge (ESD) can damage the static-sensitive devices on circuit boards. To avoid this kind of damage, use the following precautions:

- Do not remove the DIMM until you are ready to insert it into the Multiaccess Enclosure.
- Use correct grounding techniques when inspecting and installing the DIMM. Use a foot strap or grounding mat, or wear a grounded static discharge wrist strap, or touch a grounded rack or other source of ground before you handle the DIMM.

- ___ 1. Label the cable on the system card. Unplug the cable and the PCMCIA card.
- ___ 2. Loosen thumbscrews on the system card.
- ___ 3. Remove the system card and lay it on a soft non-conductive surface.
- ___ 4. Unpack the new system card and lay it on a soft non-conductive surface.



- ___ 5. Go to 10.8, "Installing a DIMM on the System Card" on page 17.

10.8 Installing a DIMM on the System Card

- ___ 1. Remove the DIMM, in its antistatic bag, from its shipping container.
- ___ 2. Remove the DIMM from the antistatic bag. Inspect it for damage. Always handle the DIMM by the ends (preferably grasp it between the middle finger and thumb; do not touch the components). If damaged, place back the dimm into the antistatic bag and contact the supplier.
- ___ 3. On the **System card**, locate the DIMM sockets (Refer to Figure 3).

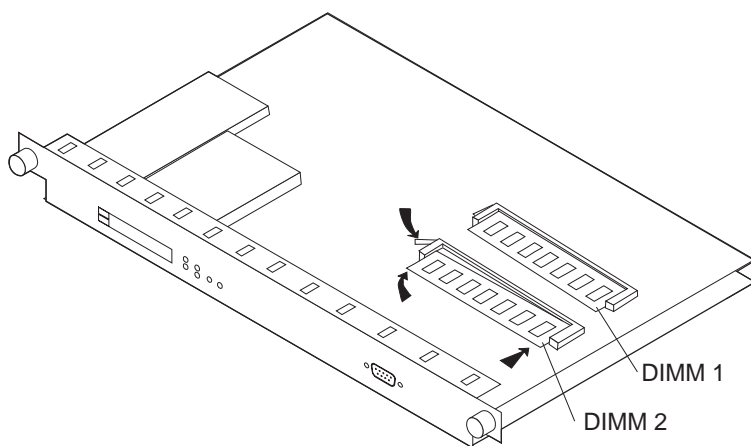


Figure 3. DIMM Slots on System Card

- ___ 4. According to the FFBM(s) received, do one of the following:
- For FFBM(s) 31L3624 for 128MB memory upgrade, go to 10.9, "Installing a 128MB DIMM."
 - For FFBM(s) 31L3625 for 256MB memory upgrade, go to 10.10, "Installing 256MB DIMM" on page 18.

10.9 Installing a 128MB DIMM

First read...

1. Before inserting the DIMM ensure that the lever on the socket is on the outward position.
2. Insert the DIMM into the slot. Grasping the DIMM between the middle finger and thumb, place it connector edge down into the DIMM slot.
3. Applying slight pressure to the top edge of the DIMM, move it forward until it is correctly aligned and snaps in place. The lever snaps back into place as the DIMM is fully inserted.

- ___ 1. Depending on the DIMM type installed, do one of the following:
 - If there is a 64MB DIMM installed, remove this DIMM and replace it with the new 128MB DIMM.
 - If there is a 128MB DIMM already installed, install the new 128MB DIMM into the remaining free slot.
- ___ 2. Then go to 10.11, "(Re-)Installing the System Card."

10.10 Installing 256MB DIMM

First read...

1. Before inserting the DIMM ensure that the lever on the socket is on the outward position.
2. Insert the DIMM into the slot. Grasping the DIMM between the middle finger and thumb, place it connector edge down into the DIMM slot.
3. Applying slight pressure to the top edge of the DIMM, move it forward until it is correctly aligned and snaps in place. The lever snaps back into place as the DIMM is fully inserted.

- ___ 1. Have you received a new system card with no DIMM installed (FFBM 10K8621)?
 - Yes, then go to next step.
 - No, then go to step 3.
- ___ 2. Install the 256MB DIMM into slot 1. If any, install the second 256MB DIMM into slot 2. Then, go to 10.11, "(Re-)Installing the System Card."
- ___ 3. Depending on the DIMM type installed, do one of the following:
 - If there is a 64MB or 128MB DIMM installed on the system card, remove this DIMM and replace it with the new 256MB DIMM. Then go to 10.11, "(Re-)Installing the System Card."
 - If there is a 256MB DIMM already installed, install the new 256MB into the remaining free slot. Then go to 10.11, "(Re-)Installing the System Card."

10.11 (Re-)Installing the System Card

Perform the following procedure when installing a new system card or re-installing the current system card after installing the required DIMM(s).

- ___ 1. Install the (new) system card. Make sure the card is aligned with the plastic grooves and then slide it in until it is flush with the box. Hold the locking latches so that they are perpendicular to the face of the system card. With the card in full contact with the rear of the Multiaccess Enclosure, press the locking latches into the system card.
- ___ 2. Tighten the thumbscrews on the face of the adapter card clockwise.

- ___ 3. Plug the PCMCIA token-ring from the removed system card to the new system card.
- ___ 4. Plug the cables into the system card.

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The Multiaccess Enclosure has a number of light-emitting diodes (LEDs) that indicate how the unit is functioning.

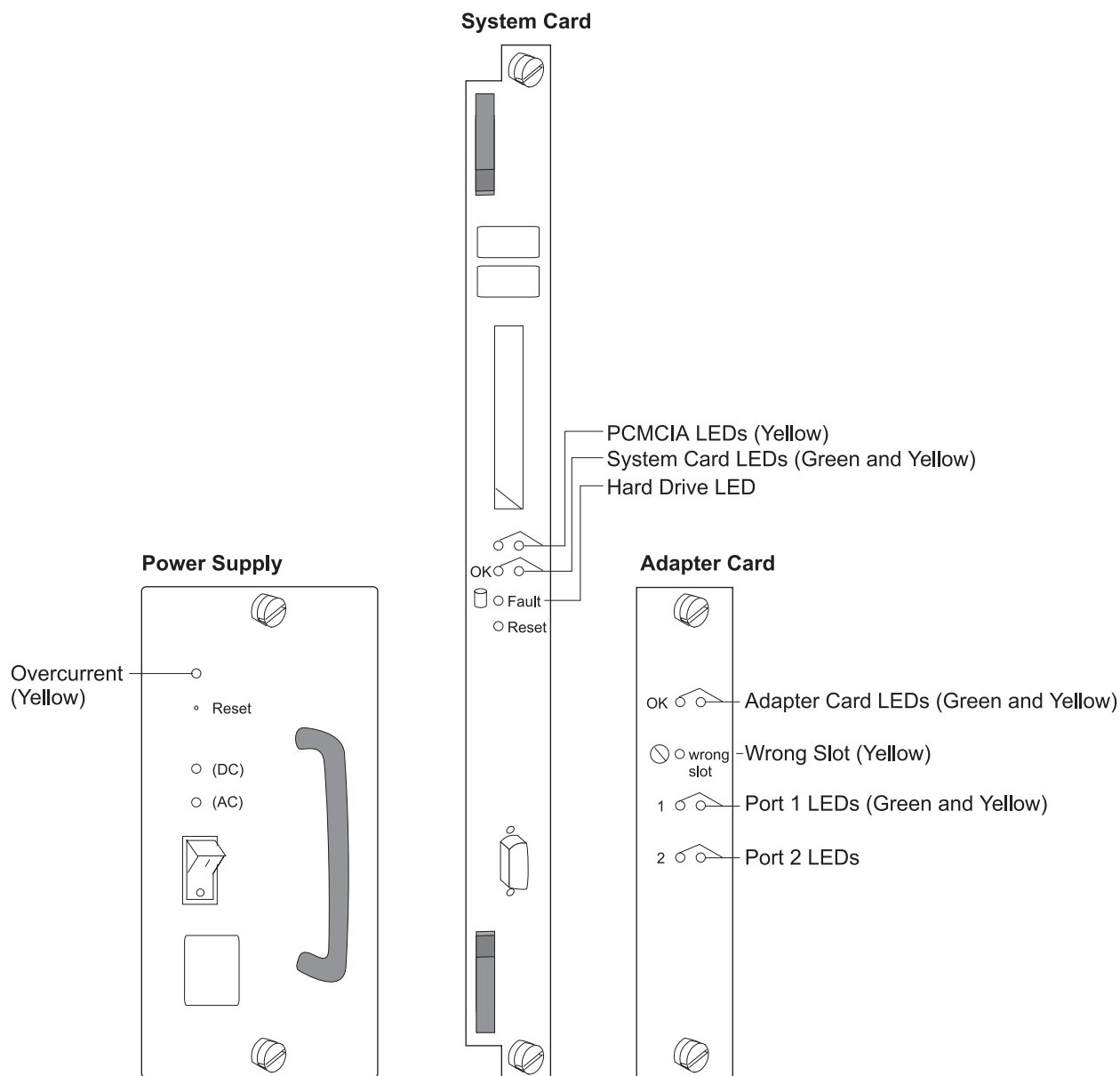


Figure 4. Power Supply, System Card, and Adapter Card LEDs

Power Supply Status

LEDs	Meaning
Yellow (Overcurrent)	On - There is an overcurrent condition with the -48 V to one or more of the adapters (slots 1–8) or the +12 V to the fan tray.
Green DC	On - +5 V, +12 V, and -48 V are OK.
Green AC	On - AC source voltage is present and within tolerance.

System Card Status

LEDs	Meaning
PCMCIA 1 or PCMCIA 2 (Yellow)	On - PCMCIA device has a fault, is not installed, or is not seated correctly. Off - Device passed self-tests
OK (Green)	On - Card hardware is operating normally. Blinking - Loading from hard file
OK (Yellow)	On - Card hardware has a fault.
Fault Hard Drive (Yellow)	On - Hard drive has failed.

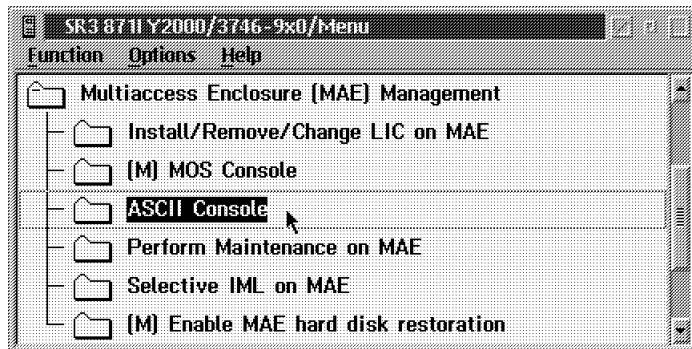
Adapter Card Status

LEDs	Meaning
OK (Green)	On - Adapter is operating normally.
OK (Yellow)	On - Adapter has a fault.
Wrong slot (Yellow)	On - Adapter is in the wrong slot. The wrong slot LED is ON only when an adapter that is plugged into the multiaccess enclosure violates the plugging rules.
Green port (See note).	On - Port is operating normally (enabled and configured). Off - Port is not configured or is disabled. For the ESCON adapter: Blinking - The optical power measurement test is running.
Yellow port (See note).	On - One or more ports has a hardware fault. Blinking - One or more ports has a port I/O or network failure. Use the Maintenance Analysis Procedures (MAPs) to isolate. Off - No problem detected.

Note: The port LEDs of the multiport WAN adapters (FC 3282, FC 3291, and FC 3292) reflect the status of one or more of the ports.

10.11.1 Updating the Vital Product Data

- ___ 1. Power On the MAE
- ___ 2. From the '3746-9x0 Menu', in **Multiaccess Enclosure (MAE) Management**, double click on **ASCII console**.



Note: If you have a problem to obtain the ASCII console, press **Ctrl+Esc**, then on the **Window List** select **MAE**.

- ___ 3. If prompted press **F1** (to prematurely terminate boot), enter the password, then go to Step 4. Otherwise change to manufacturing mode:
 - ___ a. when **V:** prompt appears type **mfgmode 0**, then press **Enter**.
 - ___ b. Enter **diags**, then press **Enter**. Continue with Step 4.
- ___ 4. On the **System Management Services** window, select **4 - Utilities**, then press **Enter**.
- ___ 5. On the **System Management Utilities** window, select **9 - View or Set Vital Product Data**, then press **Enter**.

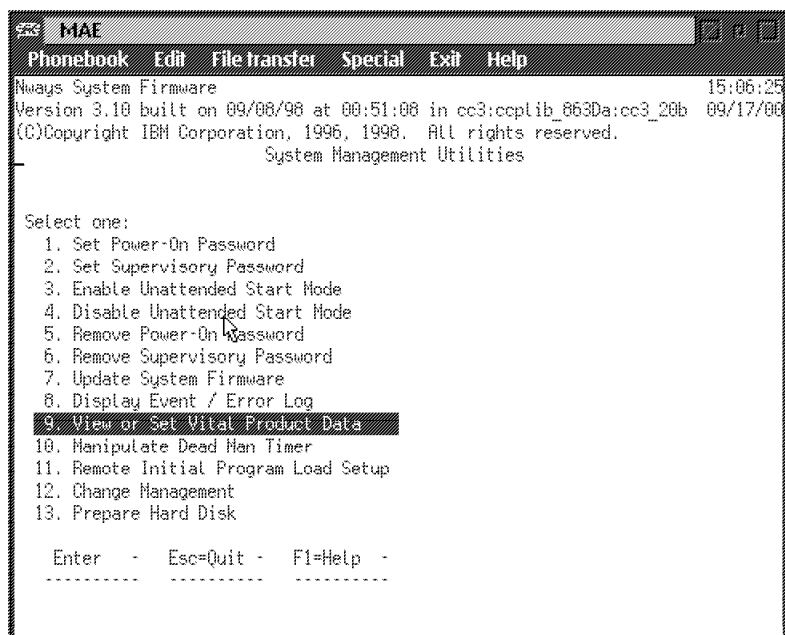


Figure 5. MAE

- ___ 6. From 'View or Set Vital Product Data', select **Hardware Vital Product Data**, then press **Enter**.

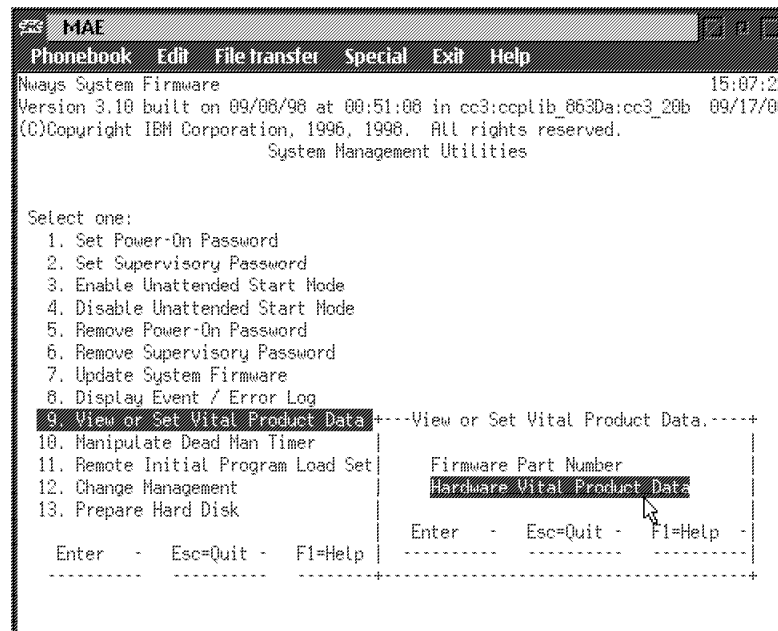


Figure 6. MAE

- ___ 7. Select **slot B**, then press **Enter**

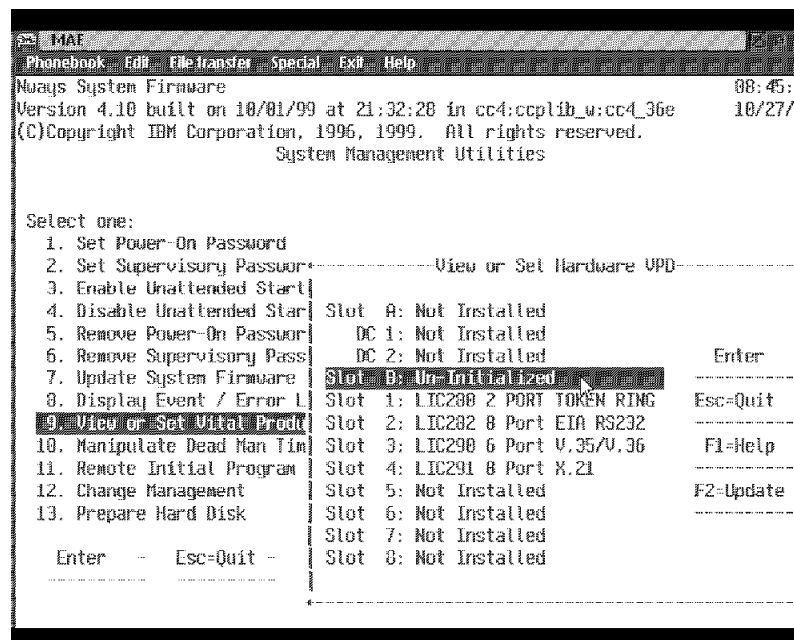


Figure 7. MAE

- ___ 8. In the BS entry field, type in the **MAE** serial number, then press **Enter**

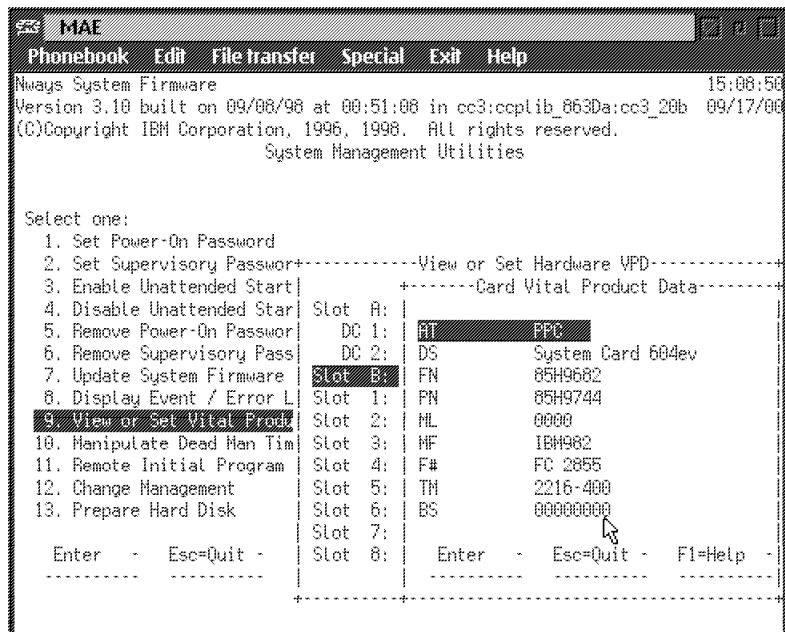


Figure 8. MAE

9. Press ESC twice, then go to chapter 10.11.2, "Setting the IP Addresses"

10.11.2 Setting the IP Addresses

1. Using the arrow keys, select **(11) Remote Initial Program Load Setup** and press **Enter**, **(1) IP Parameters** is selected, press **Enter** again.

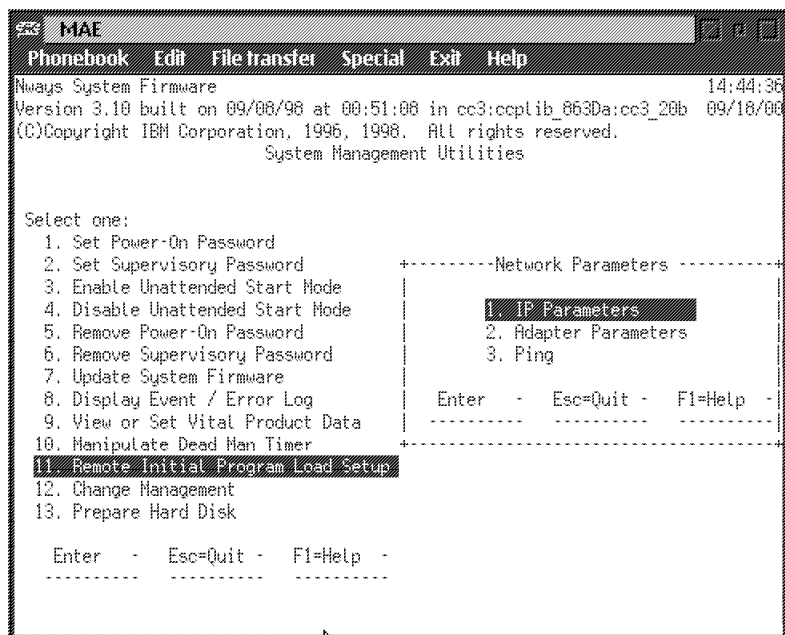


Figure 9. MAE

— 2. Refer to Figure 10 on page 25, and according to what you recorded in Step 4 on page 11 , enter the:

- **Client IP address** (MAE address of the PCMCIA card),
- **Server IP address** (service processor address),
- **Gateway IP address** (if no router on the ring, enter the service processor IP address),
- **subnet mask**,

then press **Enter**.

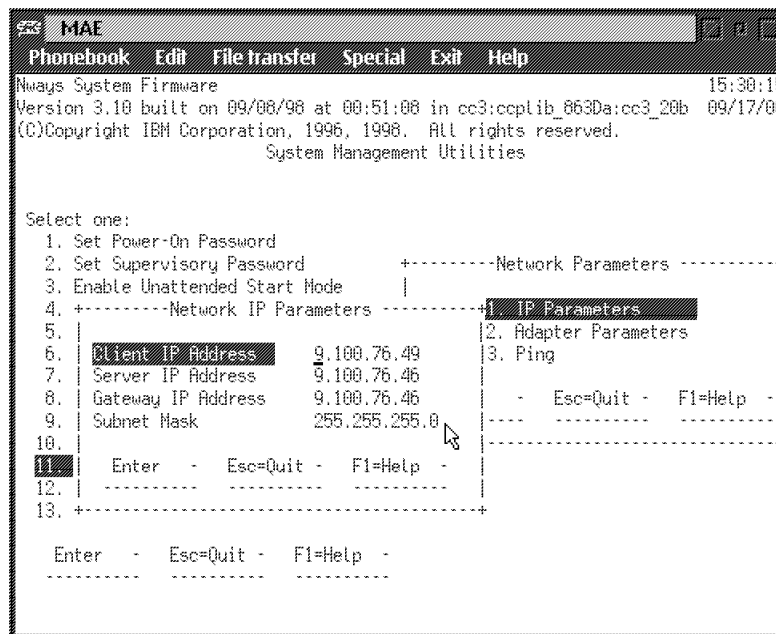
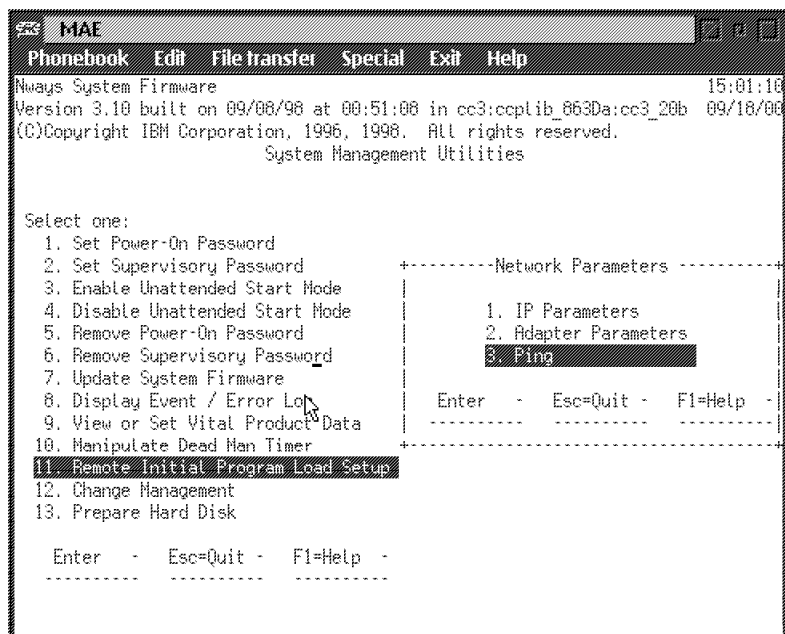
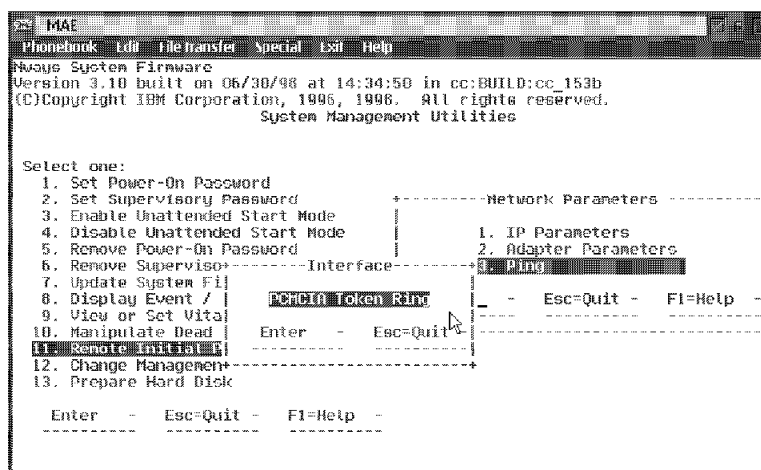


Figure 10. MAE

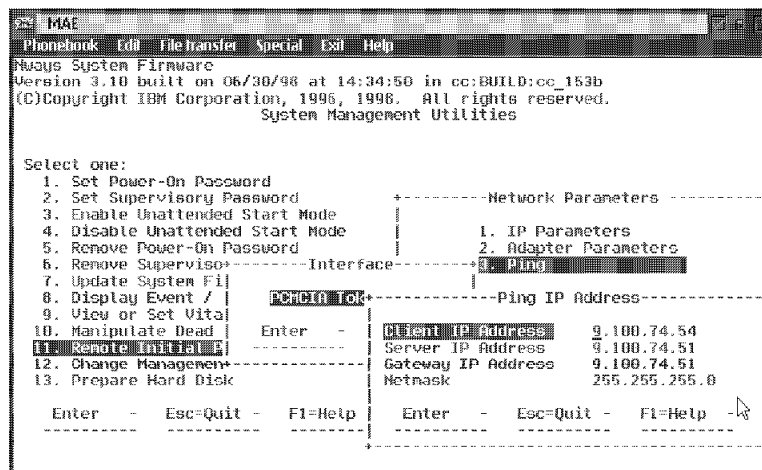
— 3. Select **Ping**, then press **Enter**.



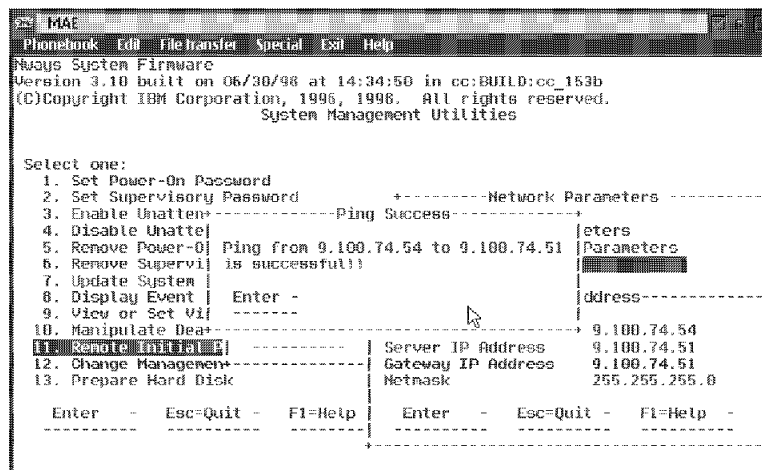
___ 4. When **PCMCIA Token Ring** is prompted, press **Enter**.



___ 5. On the **Client IP Address** press **Enter**



___ 6. Wait for the test result. Verify that the ping is successful.



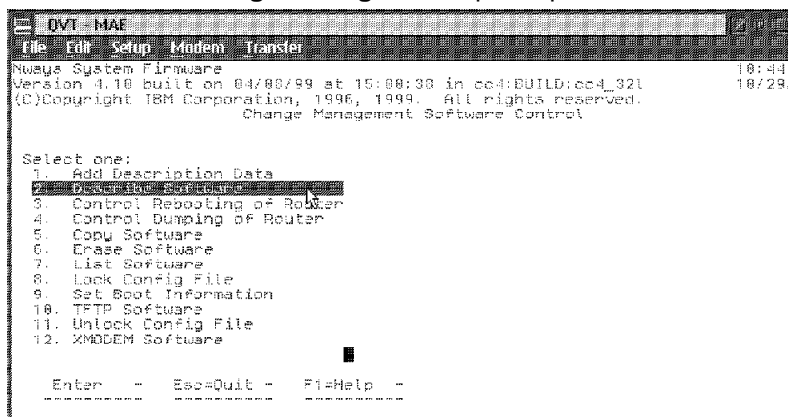
If successful, then continue with next step. Otherwise:

- Go to Step 2 on page 25 and check or modify the addresses.
- Check the speed (16 Mbps) using the **Adapter Parameters** option in the **Network Parameters** window.
- Check the cables.

___ 7. Press **Enter**.

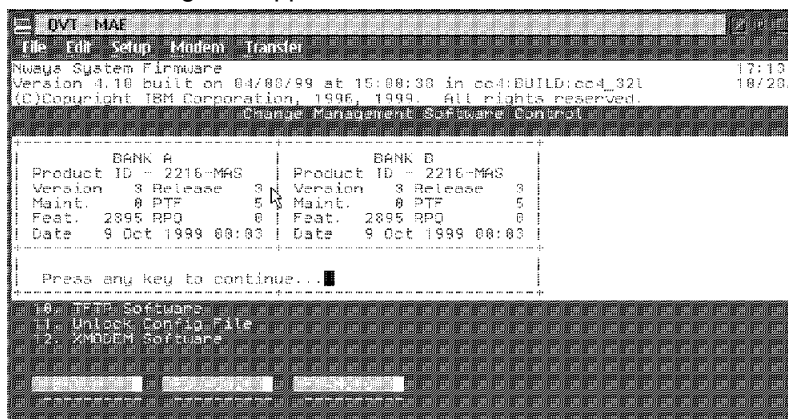
___ 8. Press the **Esc** three times to obtain the following window.

- ___ 9. Select the **12. Change Management** option, press **Enter**.



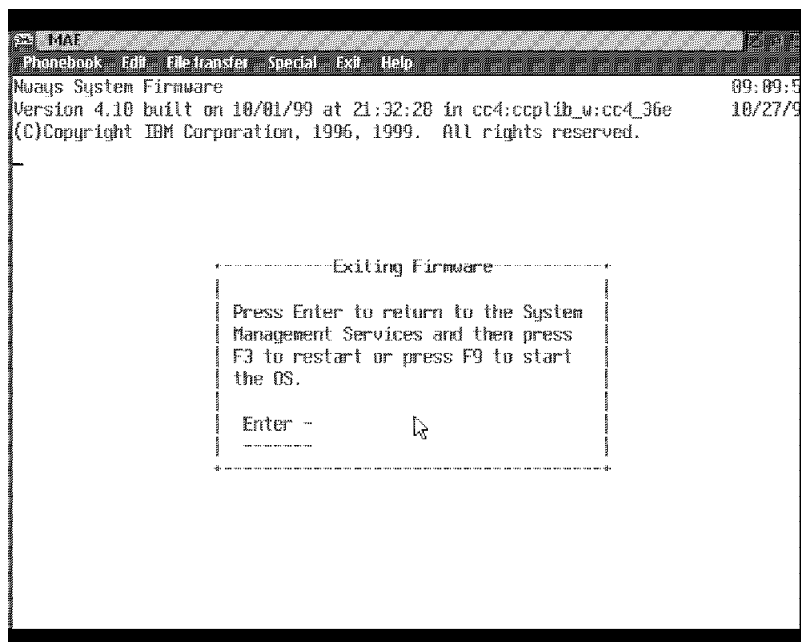
- ___ 10. Select the **2. Describe Software** option, press **Enter**.

- ___ 11. On the following window check that the MAS code level is version 3 release 3 or higher. appears.



- ___ 12. If the correct code is displayed Go to 10.17, "Install the PCMCIA Modem" on page 43 Otherwise continue.

- ___ 13. Press **Esc** until you get the **Exiting Firmware** window.



- ___ 14. Press **Enter**.
- ___ 15. Do not press **F1** while the MAE reboots.

10.12 Downloading the MAS Code on the Service Processor Hard Disk

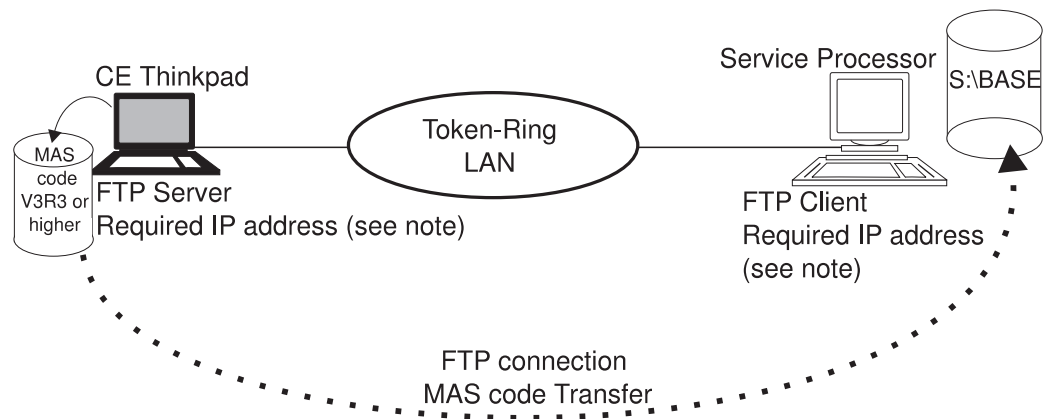


Figure 11. Down-loading the MAS Code on the Service Processor Hard Disk

Note about IP addressing: IP addresses for the Thinkpad, service processor and the MAE are the ones defined when recording the IP addresses. See 10.3, "Recording the IP Addresses" on page 11.

Configuring your ThinkPad

- ___ 1. Connect your ThinkPad to the service ring by using a free connector of the service processor access unit (8228 type).
- ___ 2. Power ON the ThinkPad.
- ___ 3. Click on **Network Neighborhood** with the right button of the mouse.
- ___ 4. Click on **Properties**.
- ___ 5. From the next window, find and select either the **TCP→IBM auto 16/4 Credit Card Adapter**, or the **TCP/IP→IBM Turbo 16/4 Token Ring Card PC**. Then click on **Properties**.
- ___ 6. From the **TCP/IP Properties** window, select the **IP address** folder.
- ___ 7. Enter an **subnetmask address** and an **IP address**, that belongs to the service LAN IP network and is not yet used by another device.
- ___ 8. Click on **OK**
- ___ 9. Follow the successive prompts to restart your ThinkPad.

Establishing a FTP Connection

- ___ 10. On the service processor, using the MOSS-E, open an OS/2 window.
- ___ 11. Change the current local directory to the **S:\BASE** by typing:


```
s:
cd base
```
- ___ 12. Delete all the files stored in the **S:\BASE** directory:

```
del *.*
```

Confirm when requested.

- ___ 13. Then connect to the ThinkPad using FTP:

```
FTP <target ThinkPad IP address>
```

- ___ 14. When requested, enter the <user name> (anonymous) and the <password> (no password).

- ___ 15. Retrieve in binary mode the MAS code files stored on the ThinkPad hard disk:

```
prompt
bin
mget *.ld
```

- ___ 16. When all the files have been transferred, stop the FTP connection:

```
quit
```

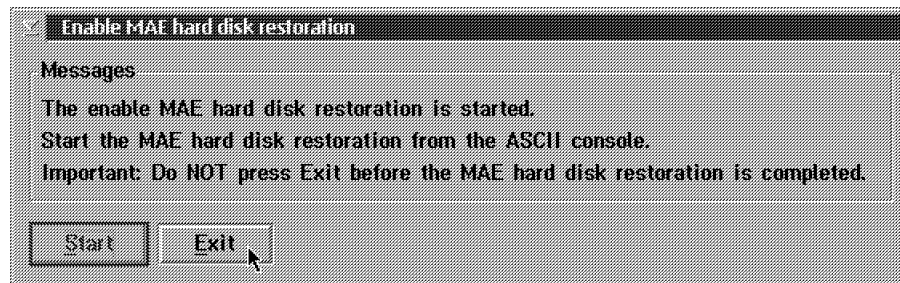
- ___ 17. Go to 10.13, "Restoring the Image Code on the MAE Hard Disk" on page 32.

10.13 Restoring the Image Code on the MAE Hard Disk

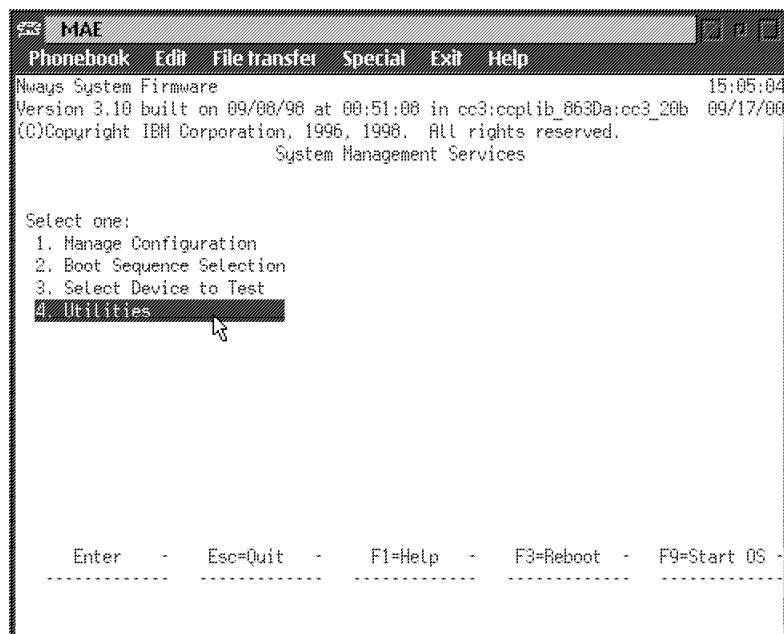
- ___ 1. Using the Service Processor, press **Ctrl+Esc** and select **3746-9x0** menu.
- ___ 2. From the **Multiaccess Enclosure (MAE) Management** window, select the **Enable MAE hard disk restoration** option. The following window is displayed:



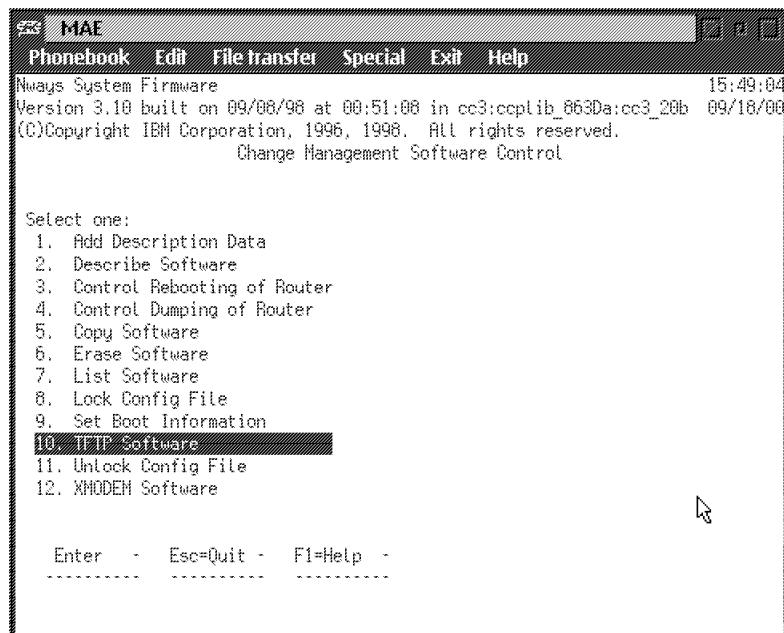
- ___ 3. Press **Start**. The following window is displayed:



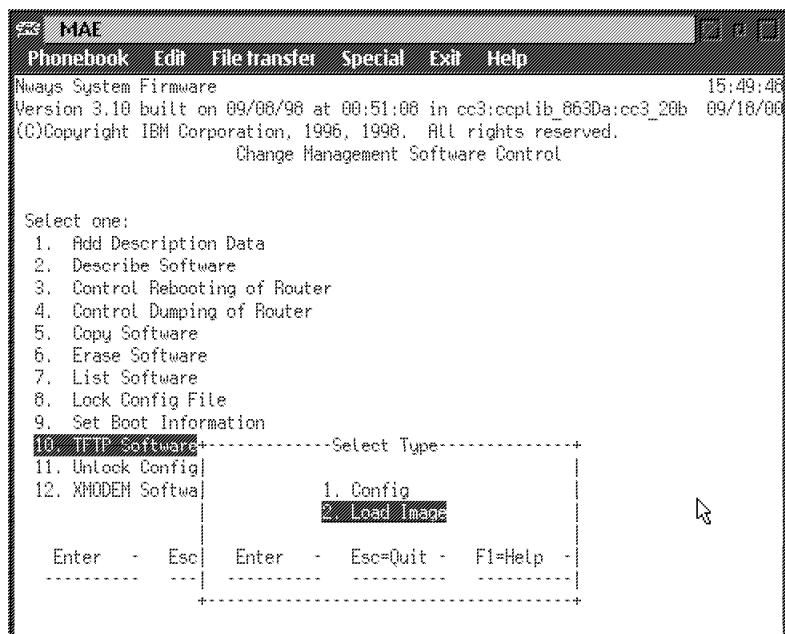
- ___ 4. Double click on the MAE ASCII Console.
- ___ 5. Reset the MAE.
- ___ 6. Stop the boot sequence by hitting **F1** (when prompted).
- ___ 7. From the **System Management Services** window, select **4. Utilities** and press **Enter**.



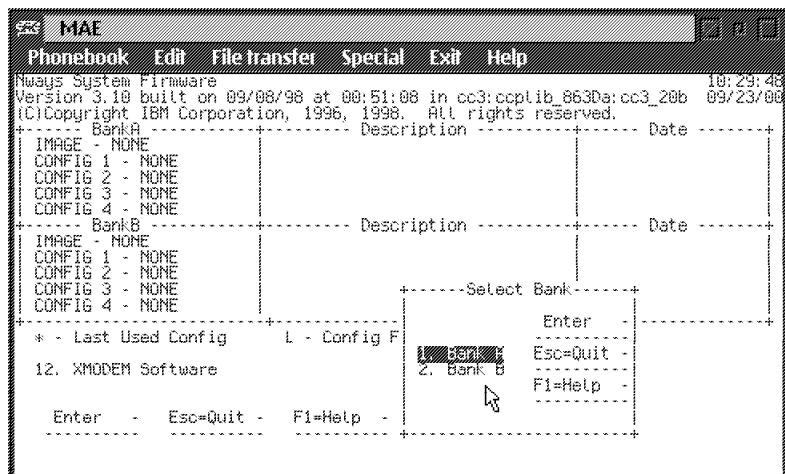
- 8. From the **System Management Utilities** window, select **12. Change Management** and press **Enter**.



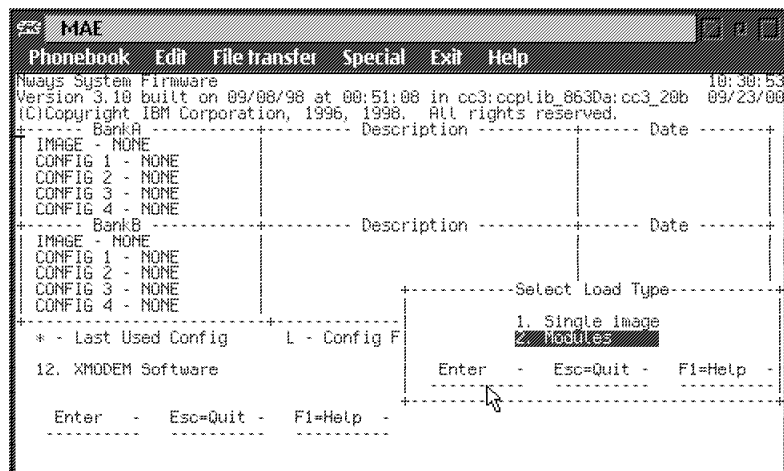
- 9. From the **Change Management Software Control** window, select **10. TFTP Software** and press **Enter**.



___ 10. Select **Load Image** and press **Enter**.

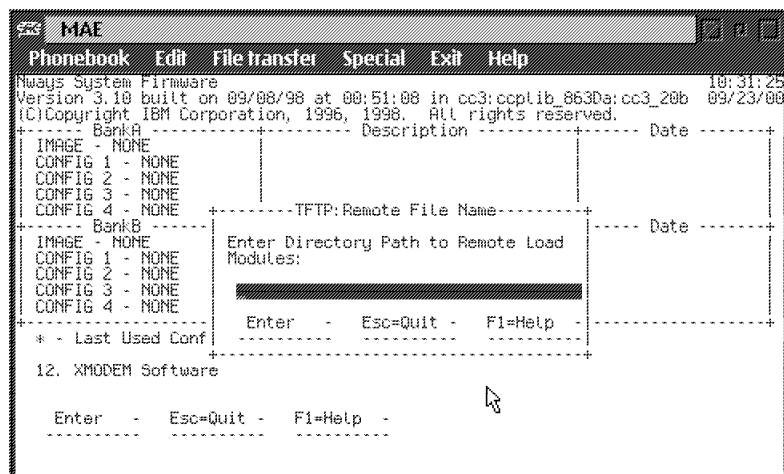


___ 11. Select **1. Bank A**, and press **Enter**.



___ 12. Select **2. Modules**, then press **Enter**.

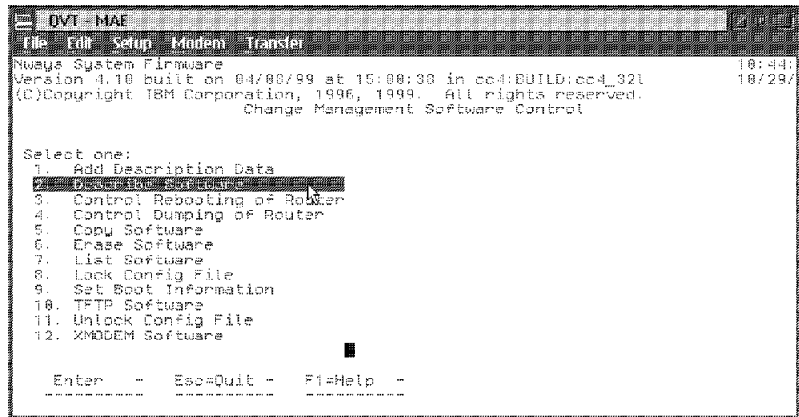
___ 13. The following window is displayed:



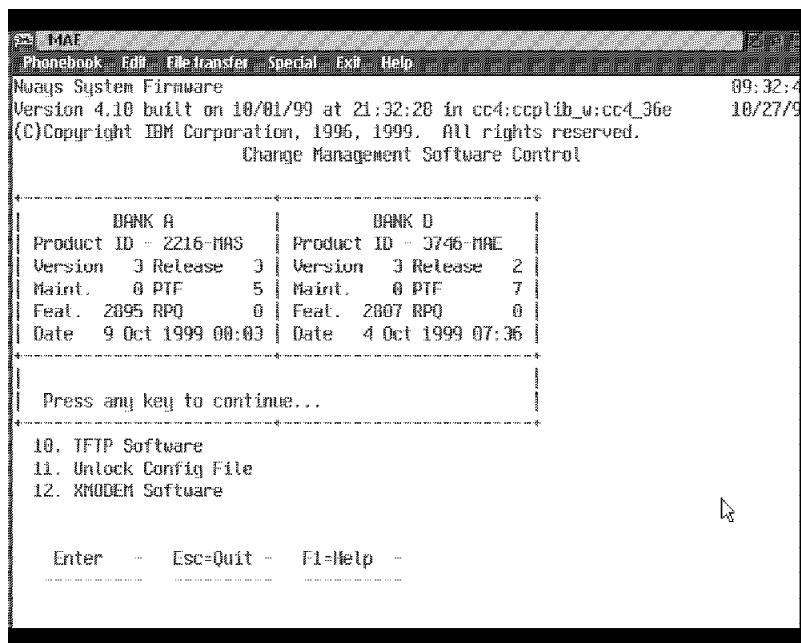
___ 14. Press **Enter**.

___ 15. The **interface** is displayed with **PCMCIA Token Ring** selected. Press **Enter**.

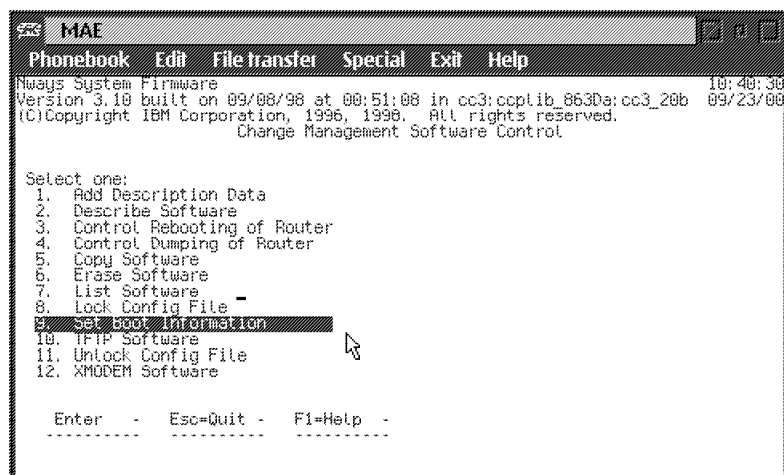
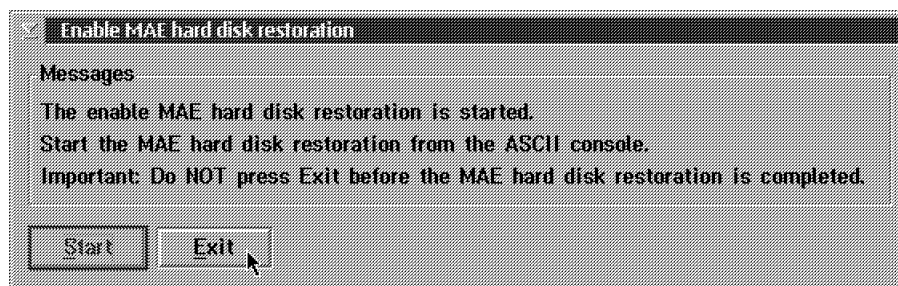
___ 16. Wait about ten minutes until the following window is displayed:



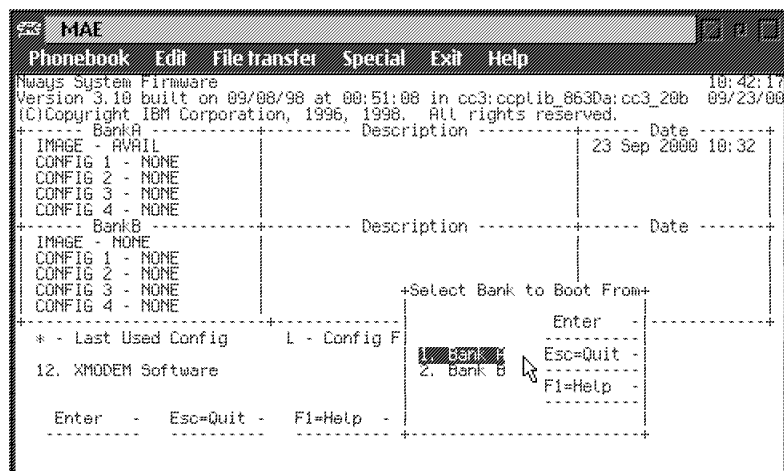
- ___ 17. Check the code level on bank by selecting option **2. Describe software**, then press **Enter**.



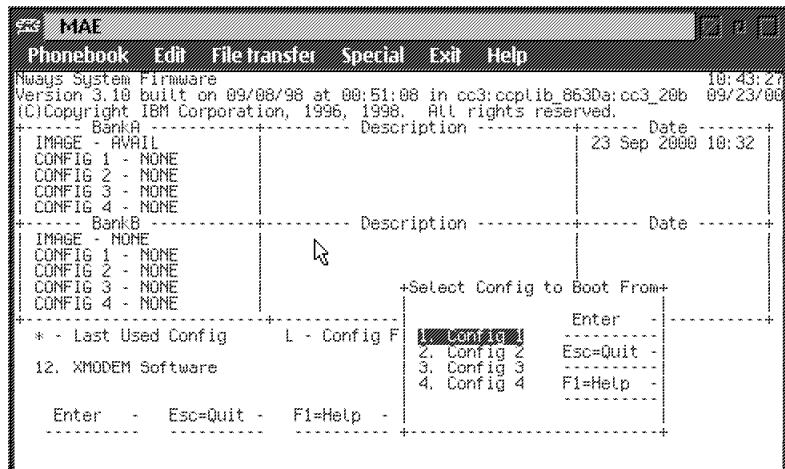
- ___ 18. Press **Ctrl+Esc**. Then from the **Window List** double-click on **Enable MAE hard disk restoration**.
- ___ 19. On the following window, press **Exit**.



___ 20. From the **Change Management Software Control** window, select **9- Set Boot Information** and press **Enter**.



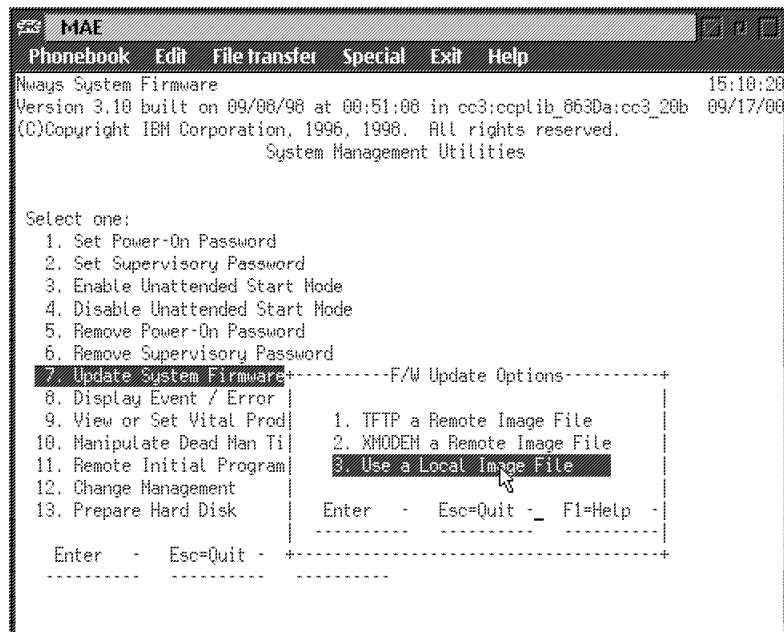
___ 21. Select **Bank A** and press **Enter**.



- ___ 22. From the **Select Config to boot from** window, select **Config 1** and press **Enter**.
- ___ 23. From the **Select Duration** window, select **Permanent** and press **Enter**.
- ___ 24. From the **Change Management Software Control** window, select **3. Control Rebooting of Router** and press **Enter**.
- ___ 25. Select **Enable** and press **Enter**.
- ___ 26. From the **Change Management Software Control** window, select **4. Control Dumping of Router** and press **Enter**.
- ___ 27. Select **Enable** and press **Enter**.
- ___ 28. From the **Change Management Software Control** window, press **Esc** to return to **System Management Utilities** menu.

10.14 Updating the System Firmware

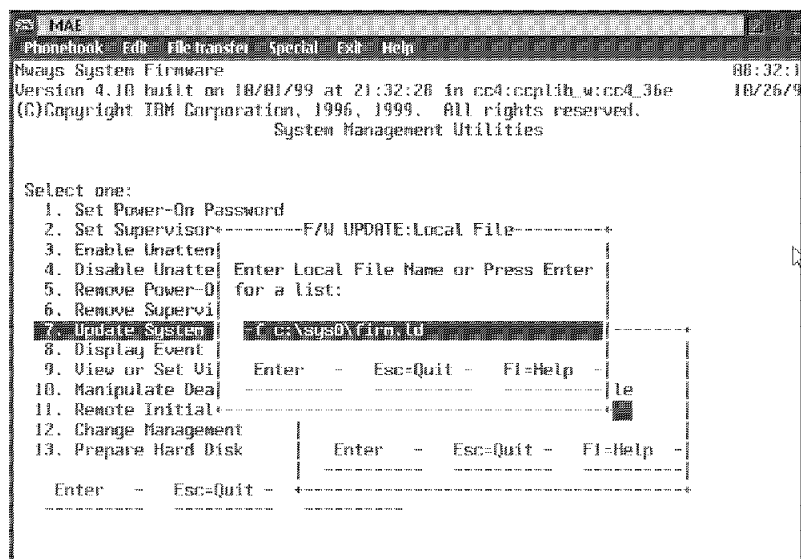
- ___ 1. Select **7. Update System Firmware** and press **Enter**.
- ___ 2. From the **F/W Update Options** menu, select **3. Use a Local Image File** then press **Enter**.



3. Follow the prompts and enter the **Local File Name**

-f c:\sys0\firm.ld

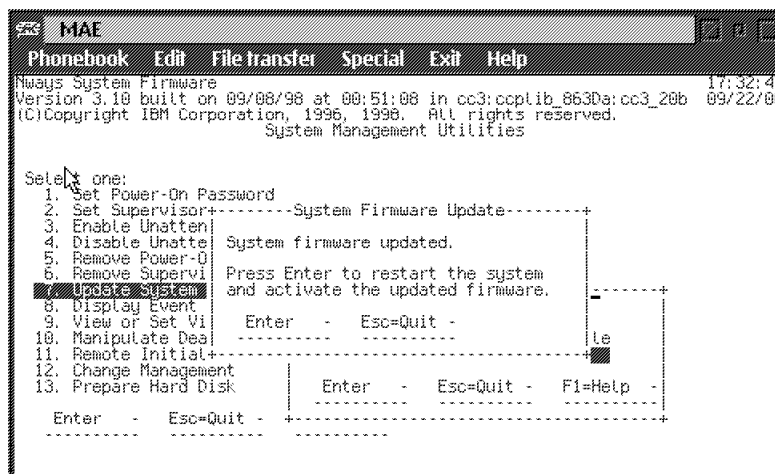
then press **Enter**.





Do not switch the system OFF. The process erases the old firmware and copies the new firmware into flash memory. If the machine is powered OFF before the process is complete, you will have to reload the firmware from the recovery image.

- ___ 4. Wait until the following window appears, with a completed message when the firmware is updated.



- ___ 5. Press **Enter**.
- ___ 6. Follow the prompts (do not press **F1**).
- ___ 7. MAE is now operating with the MAS code V3R3 or higher.

10.15 Updating Bank B (Optional But Recommended)

You now must update Bank B with the same level of MAS code as the one stored on Bank A.

- ___ 1. On the ASCII console, press **Ctrl+P** to get the * prompt.
- ___ 2. Then successively enter:
 *>T 6
 config>boot
 boot config>copy load image
- ___ 3. Then follow the prompts to
 - Select the source bank: **[A]**
 - Select the destination bank: **[B]**


```

MAE
Phonebook Edit Filetransfer Special Exit Help
Config>BOOT
Boot configuration
Boot config>COPY LOAD image

----- BankA ----- Description ----- Date -----
IMAGE - ACTIVE                               26 Oct 1999 00:19
CONFIG 1 - ACTIVE *                          14 Oct 1999 05:59
CONFIG 2 - AVAIL                             08 Oct 1999 00:14
CONFIG 3 - AVAIL                             11 Oct 1999 05:39
CONFIG 4 - NONE

----- BankB ----- Description ----- Date -----
IMAGE - AVAIL                                25 Oct 1999 04:44
CONFIG 1 - AVAIL                             25 Oct 1999 05:01
CONFIG 2 - AVAIL                             25 Oct 1999 04:44
CONFIG 3 - AVAIL                             25 Oct 1999 04:44
CONFIG 4 - NONE

* - Last Used Config      L - Config File is Locked

Auto-boot mode is enabled.      Fast-boot mode is enabled.

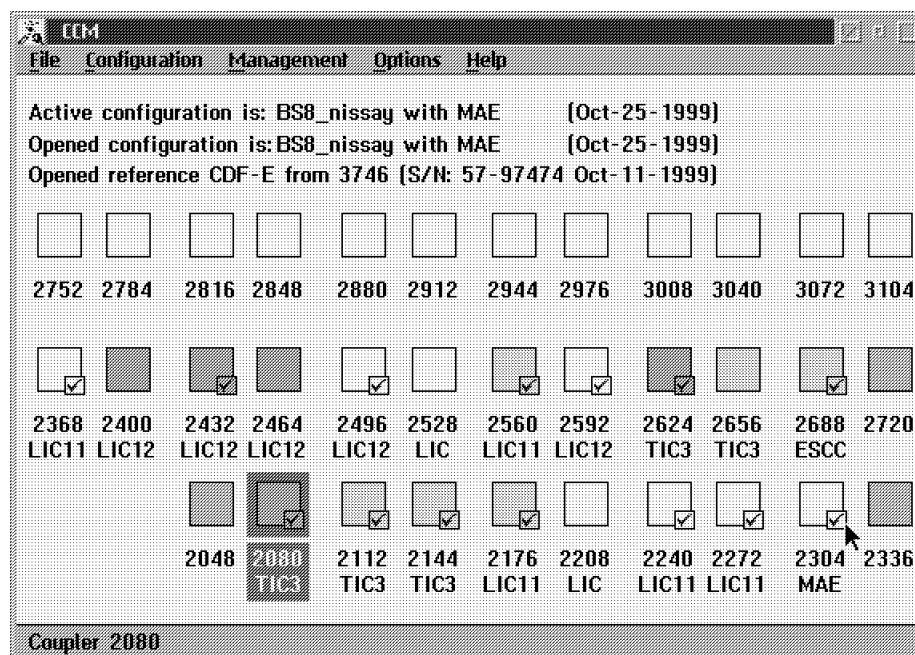
Select the source bank: (A, B): [A]
Select the destination bank: (A, B): [B]
Copy SW load image from: bank A
                             to: bank B.

```

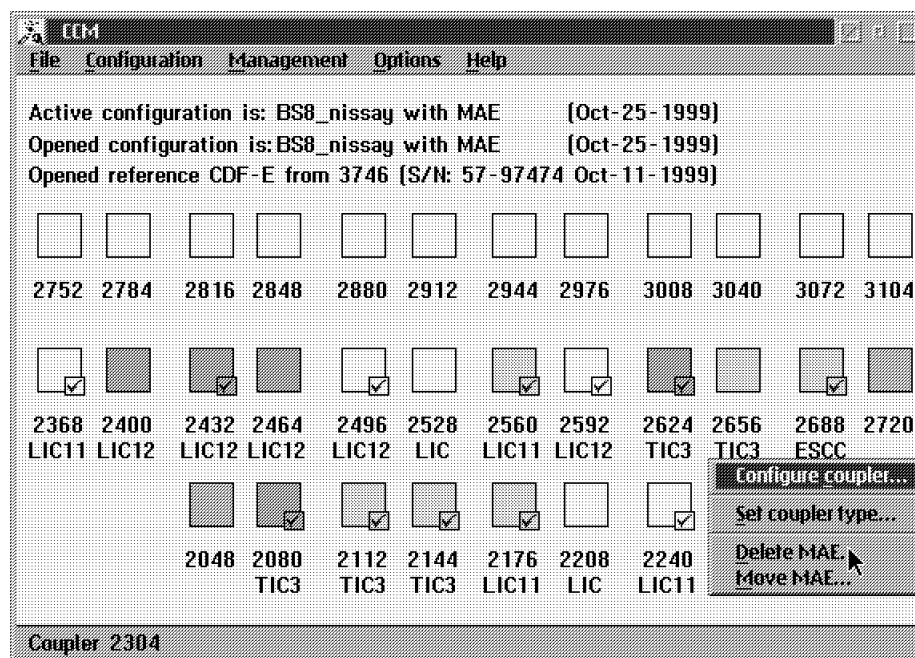
4. Wait until a message informs you that the copy has been successfully completed.
5. Press **Ctrl+P**
6. Click on **Close** and on **Exit**.

10.16 Modifying the CCM Active Configuration

1. Return to the previous **CCM Controller Configuration and Management** window.



2. Click on the **MAE coupler** with the **Right** mouse button.

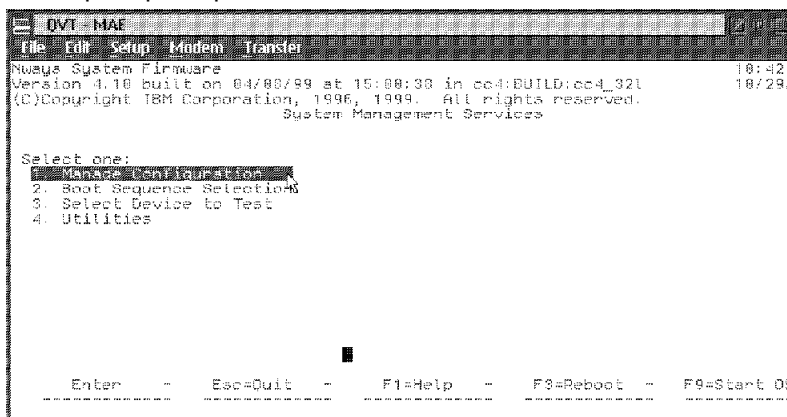


3. Click on **Delete MAE**.

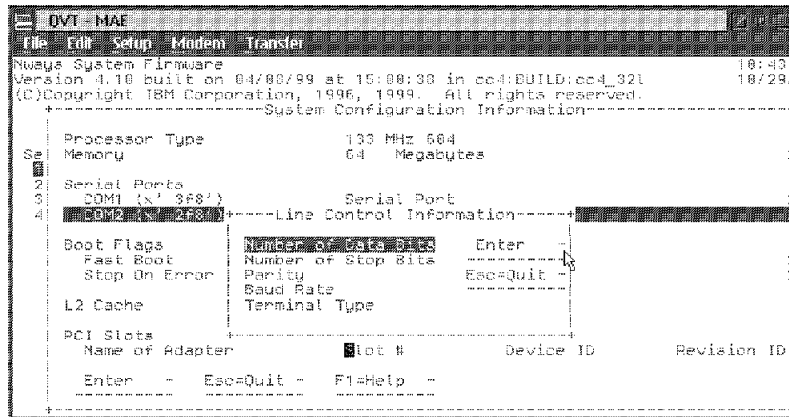
- ___ 4. Click on **Yes** to confirm.
- ___ 5. Select the **File→Save...** option.
- ___ 6. A dynamic activation window is displayed. Click on **Yes**.
- ___ 7. Another window is then shown. Click on **No**.
- ___ 8. Wait until you are told that the configuration has been successfully saved.

10.17 Install the PCMCIA Modem

- ___ 1. Remove the PCMCIA token-ring card from the system card.
- ___ 2. Install the PCMCIA modem card on the system card.
- ___ 3. Return to the **3747-9x0** Menu.
- ___ 4. Click on **Multiaccess Enclosure Management**.
- ___ 5. Double-Click on ASCII Console.
- ___ 6. Press the **Reset** button on the MAE.
- ___ 7. When prompted, press **F1**.



- ___ 8. On **System Management Service** window, select **Manage Configuration**.
- ___ 9. Select the PCMCIA modem.
- ___ 10. The Line Control Information is displayed:



___ 11. Using this display and the prompt modify the following parameters according to the customer environment.

- Number of Data Bits
- Number of Stop Bits
- Baud Rate
- Terminal Type

For detail, refer to the *2216 Nways Multiaccess Connector Model 400 Installation and Initial Configuration*, GA27-4106.

___ 12. When it is done, close the MAE window.

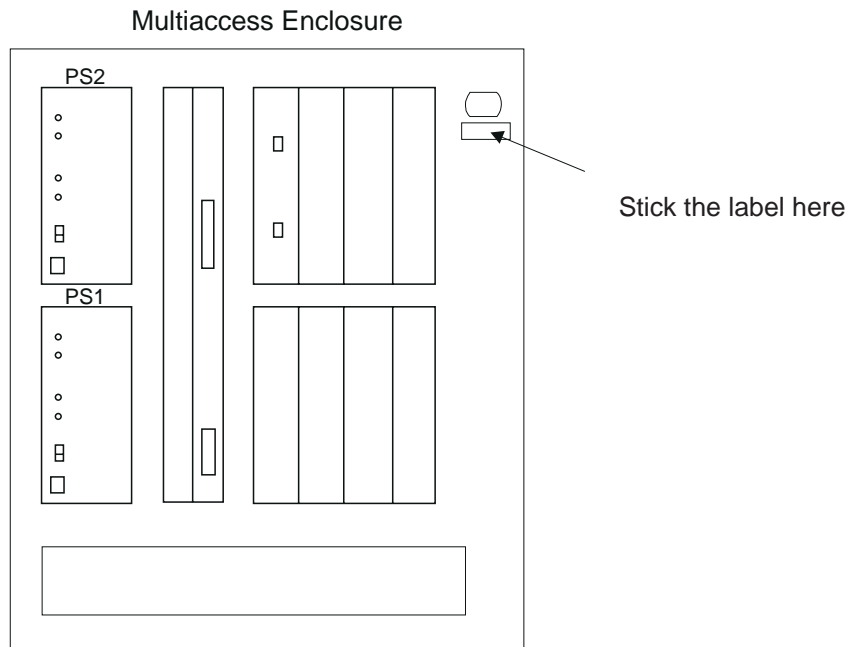
___ 13. Press the **Reset** button on the MAE.

___ 14. Ask the customer to provide you with an external telephone line. Connect the cable coming from the PCMCIA modem to the telephone line.

___ 15. Ask you support center to establish a link with the MAE in order to check the connection.

10.18 Sticking the Label PN10K8595

___ 1. Unpeel the part of the sticky label marked **MAE with MAS code** and stick it on the MAE just under the IBM logo as shown below:



10.19 Updating the MAE Configuration (Customer Task)

If the system card has not been replaced with a new one, the MAE operates with a configuration created before the MAS code V3R3 has been down-loaded.

The customer is responsible for updating the configuration using the T6 menus or the configuration tool available from the following URL:

www.networking.ibm.com/support/2216

If the configuration program is installed on a workstation, the MAExxx.CSF configuration files previously saved on a diskette must be converted to be compatible with the latest code level.

Tell the customer to proceed as follows to convert a .csf file:

- ___ 1. Start the latest code level of the configuration program.
- ___ 2. Select **Configure**→**Open configuration**. Select the desired configuration from the Available Configurations list.
- ___ 3. Select **Open**. You are then asked whether you want to upgrade the configuration to the current code level.
- ___ 4. Select **Configure**→**Save configuration as** to save the configuration into a new file with a new file name. This backup configuration file can be later used.

11.0 Test Procedures

No test required.

12.0 Field Updating

None.

After Installation (steps 13-15)

13.0 Publication Distribution

- Scrap the *Multiaccess Enclosure Installation and Maintenance* manual SY33-2124.
- Provide the customer with the documentation shipped with the current RPQ:
 - *2216 Nways Multiaccess Connector and Network Utility Introduction and Planning Guide*, GA27-4105
 - *2216 Nways Multiaccess Connector Model 400 Installation and Initial Configuration*, GA27-4106
 - *2216 Nways Multiaccess Connector Hardware Configuration Quick Reference*, GA27-3988
 - *2216 Nways Multiaccess Connector and Network Utility Service and Maintenance Manual*, SY27-0350
 - *Caution: Safety Information - Read This First*, SD21-0030
 - *Configuration Program User's Guide*, GC30-3830

14.0 Parts Disposition

14.1 Purchased Machines

Refer to the parts ownership matrix to determine the correct owner of removed/unused parts.

- For EMEA/APG/AG Areas, refer to *Hardware and General Service Code Description*.
- For Domestic Areas, return parts to the customer.

15.0 Machine Records

- Install the new **MACHINE HISTORY** supplied.
 - Report installation and quality according to existing procedures.
- End of instructions.**

