

**Installation of  
Field Feature Bill of Material**

**PN 10K8768 or 10K8769 or  
43P1313 or 43P1314**

**Install Service Processor  
6563-65U or 6578-RAU  
(Based on Type 4)  
Feature Code FC 5054  
on IBM 3745 Models 17A, 21A, 31A, 41A or 61A  
or  
IBM 3746 Models 9x0**

Written by: D. Esteve  
Checked by: J. Combes  
Approved by: D. Esteve  
Reviewed by: A. Bowen

3745 FFBM	PN 43P1332 1 of 42	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002			
--------------	-----------------------	--------------------------	--------------------------	--	--	--



## Before Installation (Steps 1-8)

### 1.0 Machines Affected

- 3745 Models 17A, 21A, 31A, 41A or 61A, or
- 3746 Models 9x0.

*This feature should only be applied on the machine serial for which it is specified.*

### 2.0 Related BMs and ECs

None.

### 3.0 BMs to be Installed

- Service Processor:

FFB/M	Title
<b>10K8768</b>	Install Service Processor 6563 without FC 5802
<b>10K8769</b>	Install Service Processor 6563 with FC 5802
<b>43P1313</b>	Install Service Processor 6578 without FC 5802.
<b>43P1314</b>	Install Service Processor 6578 with FC 5802.

- Power Cords

One of the following FFBM providing 2 power cords based on the country rules.

FFB/M	Countries.
<b>43G3160</b>	610, 618, 624, 644, 662, 668, 699, 702, 704, 705, 706, 707, 708, 726, 724, 740, 742, 749, 762, 768, 773, 782, 785, 786, 788, 806, 820, 821, 822, 825, 826, 838, 842, 846, 850, 862, 865, 882.
<b>43G3161</b>	678.
<b>43G3162</b>	655, 758.
<b>43G3163</b>	848.
<b>43G3164</b>	620, 643, 666, 672, 677, 680, 725, 738, 744, 752, 764, 767, 769, 778, 780, 804, 805, 823, 833, 834, 851, 857, 866, 883.
<b>43G3165</b>	755, 756.
<b>43G3166</b>	615, 646, 652, 808, 864.
<b>43G3167</b>	619, 621, 627, 649, 661, 663, 681, 683, 731, 733, 735, 759, 770, 781, 791, 799, 811, 818, 829, 832, 843, 859, 871, 896.
<b>57G7451</b>	629, 815, 856.
<b>57G7452</b>	760, 766, 815.
<b>57G7453</b>	613, 631, 813, 869.
<b>57G7454</b>	616, 796.

- RSF modem

Depending on the country homologation, you will receive a 7857, 7858, or Hayes modem.

## 3.1 Additional FFB/M

- Rack Mount kit:

FFB/M	Title
<b>08J5494</b>	Service Processor Controller Expansion Mount Kit

- If the Service Processor is received as part of a 3745 Model conversion MES, you receive one of the following BMs:

FFB/M	Title.
<b>17G5441</b>	3745 conversion 210 to 21A.
<b>17G5445</b>	3745 conversion 410 to 41A
<b>17G5443</b>	3745 conversion 310 to 31A
<b>17G5448</b>	3745 conversion 610 to 61A
<b>17G5451</b>	3745 conversion 310 to 61A
<b>17G5453</b>	3745 conversion 310 to 61A (16MB)
<b>17G5475</b>	3745 conversion 210 to 31A (4MB)
<b>17G5476</b>	" " (8MB)
<b>17G5477</b>	" " (16MB)
<b>17G5478</b>	3745 conversion 210 to 61A (4MB)
<b>17G5479</b>	" " (8MB)
<b>17G5480</b>	" " (16MB)
<b>17G5487</b>	3745 conversion 410 to 61A (4MB)
<b>17G5488</b>	" " (8MB)
<b>17G5489</b>	" " (16MB)
<b>57G7495</b>	3745 conversion 130/160/170 to 17A
<b>57G7496</b>	3745 conversion 150 to 17A
<b>57G7497</b>	3745 conversion 150 to 17A (US only)

## 4.0 Preparation

- Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.
- Check all items listed on the BM(s) to determine that all parts have been received.
- The set up of the Service Processor has no impact on customer operations.

**Note:** The RSF link will be connected to the Service Processor instead of the 3745. Insure the RSF link is installed and working. If the Customer has not provided an RSF link, review or have marketing review for the 3745/3746-9X0 maintenance exposure with the customer.

## 5.0 Programming

### 3746 Models 900 and 950 have a new requirement on NCP.

For compatibility with current reporting of 3746-900 statistics to NPM, the Licensed Internal Code (H10030, any suffix, or H10040, any suffix) requires NCP Version 7 Release 3, or later, with APAR IR46303 (MVS/VM) or IR46304 (VSE). The NCP APAR must be applied before the installation of the new Licensed Internal Code. Otherwise, the reporting of all statistics related to 3746-900 resources controlled by NCP will be interrupted.

### 3746 Models 900 and 950 have a new requirement on NPM.

The Licensed Internal Code (H10030, any suffix, or H10040, any suffix) requires:

- For the reporting of active PU counts per TIC3
  - NPM Version 2 Release 4 with APAR OW37743 (PTF UW59877) at a minimum.
- For NNP utilization reporting to NPM:
  - NPM Version 2 Release 4, Release 5, or Release 6, with APAR number OW49510.
- For reporting to NPM of adapter processor utilizations via NNP
  - NPM Version 2 Release 4, Release 5, or Release 6, with APAR number OW47153.

## 6.0 Purpose and Description

### 6.1 Purpose

To allow the operation of a 3745 Model XXA or 3746 Model 950.

### 6.2 Description

Install/replace a Service Processor.

## 7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.	Nbr of CE
10K8768 or 10K8769 or 43P1313 or 43P1314	see Note	00.0	1

**Note:** Depending on machine configuration: From one hour to two hours. Disruptive for customer operations.

3745 FFBM	PN 43P1332 5 of 42	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002			
--------------	-----------------------	--------------------------	--------------------------	--	--	--

# 8.0 Tools/Material Required

ESD kit (PN 6428316).

## Installation (Steps 9-12)

### 9.0 Safety

None.

### 10.0 Details of Installation

- If you are replacing an old Service Processor with a new one, go to step 10.2, “Replacing a Service Processor” on page 8.
- Otherwise, go to step 10.1, “Installing a New Service Processor.”

#### 10.1 Installing a New Service Processor

Install the Service Processor according to the instructions in Chapter 1 of the *Service Processor Installation and Maintenance (Based on 6563)*, SY27-0393, or *Service Processor Installation and Maintenance (Based on 6578)*, GY27-0406. This document is provided in the shipping group of the Service Processor.

**Note:** The connection to a 3745 will be performed during the model conversion.

When completed, **Go to “After Installation (Steps 13-15)” on page 42.**

3745 FFBM	PN 43P1332 7 of 42	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002			
--------------	-----------------------	--------------------------	--------------------------	--	--	--

## 10.2 Replacing a Service Processor

### Go To

What is the EC level of the code currently installed on your old SP that you are going to replace?

- Microcode EC **F12380X** or above (microcode available on **CD-ROM**), go to 10.2.5, "Saving Configuration on Diskette" on page 11
- Any other EC level **prior to F12380** (microcode available on **OD**) , go to 10.2.1, "Saving the Configuration on the Optical Disk."

### 10.2.1 Saving the Configuration on the Optical 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 "**Operation Management**".
4. Double click on "**Manage Disks and Databases**".
5. Click on **Save databases on optical disk** radio button.
6. Click on "**OK**" and follow the prompts.
7. When prompted, Insert the optical disk.
8. When completed, click on **OK**, then click on "**Cancel**" to exit from the function.

### 10.2.2 Installing MES Data Save Function

1. Insert the Customer Data Migration diskette (PN 02L3850) in the Service Processor diskette drive.
2. Click on "**Change Management**".
3. Double click on "**Manage Microcode Fixes**".
4. Click on "**OK**" for use of PE function.
5. On **Manage Microcode Fixes** window, click on "**View**" (On function bar). Then, click on "**Change directory path**" (On pull down menu)
6. On **Change Directory Path** window, enter **A:\\*.\***. Then, click on "**OK**".



- \_\_\_ 7. On **Manage Microcode Fixes** window, click on the **fixes** to be applied.

Driver	If LIC EC Level	Apply MCF
607	D2251X	MD22426.418
810	D2256X	MD22726.418
830	D4612X	MD22526.418
840	D4613X	MD22326.418

- \_\_\_ 8. Click on **"File"** (On the function bar). Then, click on **"Move"** (On pull down menu).
- \_\_\_ 9. On the **Move Microcode Fix files** window, enter **J:\MCF\**. Then, click on **"OK"**.

Enter the new path specification following the format {drive:\directory}:

J:\MCF\

OK Cancel Help

- \_\_\_ 10. On the **Change Directory Path** window, enter **J:\MCF\ALL**. Then, click on **"OK"**.

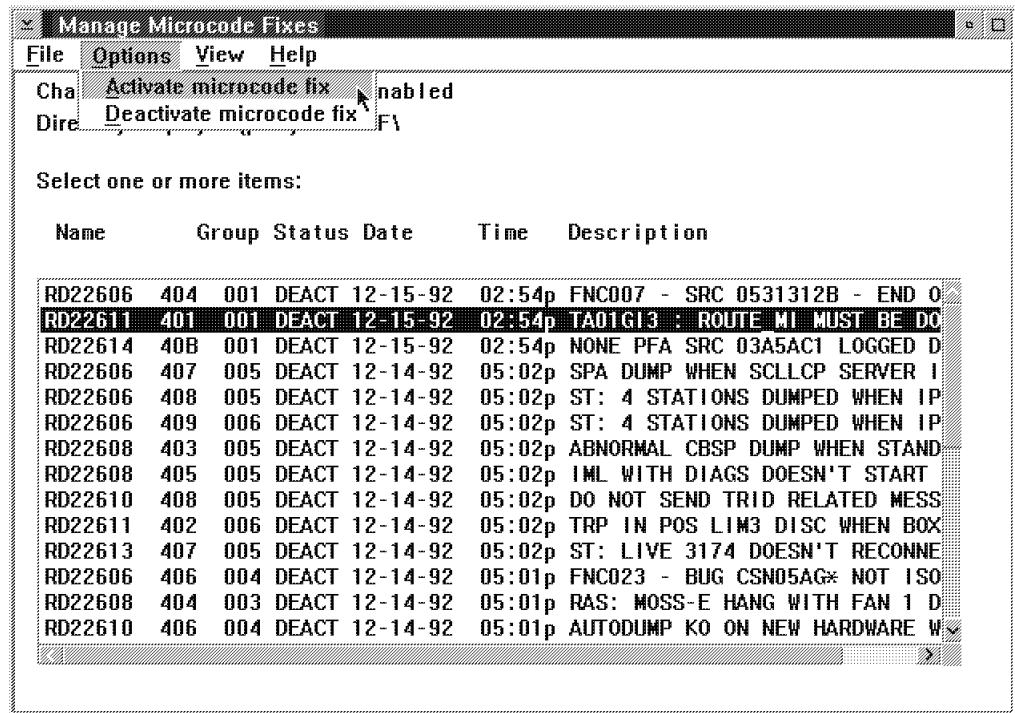
Enter the full path of path or directory to be displayed following the format {drive:\directory\filename.extension or \*}, or click on the OK push button for default directory:

J:\MCF\ALL

OK Cancel Help

- \_\_\_ 11. Remove the diskette from the drive.

- \_\_\_ 12. On the **Manage Microcode Fixes** window, Click on the lines of the MCFs to be applied "**MES-Data Migration**", click on "**Options**" (On function bar).  
Then, click on **Activate microcode fix** (On pull down menu).
- \_\_\_ 13. Answer 'YES' to reboot and shutdown.



### 10.2.3 Verifying the MCF Status

After IML is completed

- \_\_\_ 1. Enter the Service Processor maintenance password.
- \_\_\_ 2. Double click on the "**Service Processor object icon**".
- \_\_\_ 3. Click on "**Change Management**".
- \_\_\_ 4. Double click on "**Manage Microcode Fixes**".
- \_\_\_ 5. The status of the MCF just applied should be "**ACT**".

**MCF Status ACT?**

**NO**, Call Support..

**YES**, continue with next step.

- \_\_\_ 6. Exit the **Change Management** functions.

## 10.2.4 Saving Customer Data on Diskette

- \_\_\_ 1. On the **MOSS-E View** window, click on **Program**.
- \_\_\_ 2. Double click on **Log OFF MOSS-E**, then double click on **Log ON MOSS-E**.
- \_\_\_ 3. Insert in the ODD the **backup** optical disk, that contains the current micro-code backup. This must be the one used when formerly saving the configuration (see 10.2.1, "Saving the Configuration on the Optical Disk" on page 8).
- \_\_\_ 4. Double click on the "**Service Processor object icon**".
- \_\_\_ 5. Click on "**Functions to Use Under PE Guidance Only**".
- \_\_\_ 6. Double click on "**Save Customized data on diskette**".
- \_\_\_ 7. When prompted, insert the Configuration Parameters diskette (PN 02L3427) (can be any blank 1.44 diskette) into the diskette drive.  
**Note:** Only **one** diskette is provided, if more than one diskette is required, get additional blank diskettes (1.44Mb).
- \_\_\_ 8. Click on "**OK**" follow the prompts and wait for the following message *'operation is successfully completed'*.
- \_\_\_ 9. Click on "**Close**".
- \_\_\_ 10. Remove the diskette and the optical disk.

Go to, 10.2.6, "Shutdown the Service Processor" on page 12 .

## 10.2.5 Saving Configuration on Diskette

The following procedures must be done when coming from EC F12380 or above

- \_\_\_ 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**".
- \_\_\_ 5. Click on **Save database on diskette** radio button.
- \_\_\_ 6. Click on "**OK**" and follow the prompts.
- \_\_\_ 7. When prompted, Insert the Configuration Parameters diskette, **PN 02L3427**, in the diskette drive.  
**Note:** Only one Configuration Parameters diskette is provided, if more than one diskette is required, get additional blank diskette (1.44Mb).
- \_\_\_ 8. When completed, click on "**OK**" and remove the diskette.

Go to, 10.2.6, “Shutdown the Service Processor” .

## 10.2.6 Shutdown the Service Processor

- \_\_\_ 1. On the **MOSS-E View** window, click on **Program**.
- \_\_\_ 2. Double click on **shut-down**, then enter the maintenance password (default is IBM3745), and click on **OK**.
- \_\_\_ 3. When the pop-up appears saying shut down has completed, power OFF the Service Processor.

## 10.2.7 Installing the New Service Processor

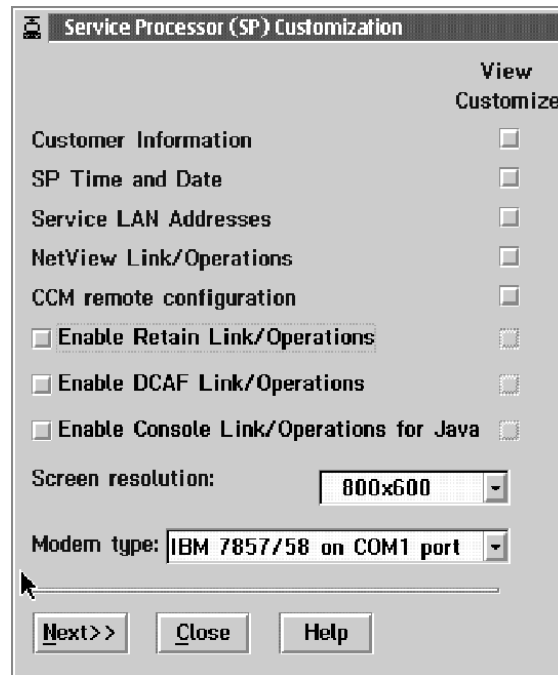
- \_\_\_ 1. Disconnect and remove the (old) Service Processor.
- \_\_\_ 2. Install the (new) Service Processor according to the instructions in Chapter 1 of the *Service Processor Installation and Maintenance (Based on 6563)*, SY27-0393, or the *Service Processor Installation and Maintenance (Based on 6578)*, GY27-0406, provided in the shipping group of the Service Processor.

## 10.2.8 LIC Installation

- \_\_\_ 1. Insert the Service Processor Installation diskette, **PN 43P1275**.
- \_\_\_ 2. Then, power **ON** the Service Processor and while the system is started, insert the **Licensed Internal Code CD ROM (PN 02L2730)** into the drive.  
  
**Note:** If you received several CD ROMs, use the CD ROM which contains the more recent level of code.
- \_\_\_ 3. When the diskette is booted, follow the prompts on the screen.
- \_\_\_ 4. Wait for a while ... several messages will appear: Build hardisk, reboot, format ...  
  
**Note:** If the following message appears, **press enter** to continue:  
*SYS0627: Drive C: was improperly stopped. From the OS/2 command prompt, run CHKDSK with the /F parameter on the specified drive*  
  
**Note:** If the following message appears, ignore it:  
*SYS0318: Message file OSO001.msg cannot be found for message 1467*
- \_\_\_ 5. When prompted, Insert the Configuration Parameters diskette, **PN 02L3427**, in the diskette drive.
- \_\_\_ 6. Wait for a while, when prompted insert the Service Processor Installation diskette, **PN 43P1275**, in the diskette drive.

- \_\_\_ 7. Message: *Number of bytes....Remaining computed time goes to 00 mn 00s* is displayed but wait and stays on for an extra 5 minutes until message: *Update Licensed Internal Code, Operation Successfully Completed* is displayed. Then, press **Enter** to continue.
- \_\_\_ 8. When prompted remove the diskette from the diskette drive. Then, press **Enter** key and remove the CD.
- \_\_\_ 9. The system re-boots, wait for a while ..., click on **OK** button when the message '**Do you want to customize your SP**' is displayed.

**Note:** If not prompted automatically, select the function '**SP customization**' from the **service processor configuration** menu.



- \_\_\_ 10. On the **Service Processor (SP) Customization** window, except for DCAF Link/Operations and Console Link/Operations for Java options that are mutually exclusive and therefore require that you select one or the other option according to the customer requirements, click on every **View Customize** check-boxes in order to check and , if necessary, modify the configuration parameters according to the customer system configuration.

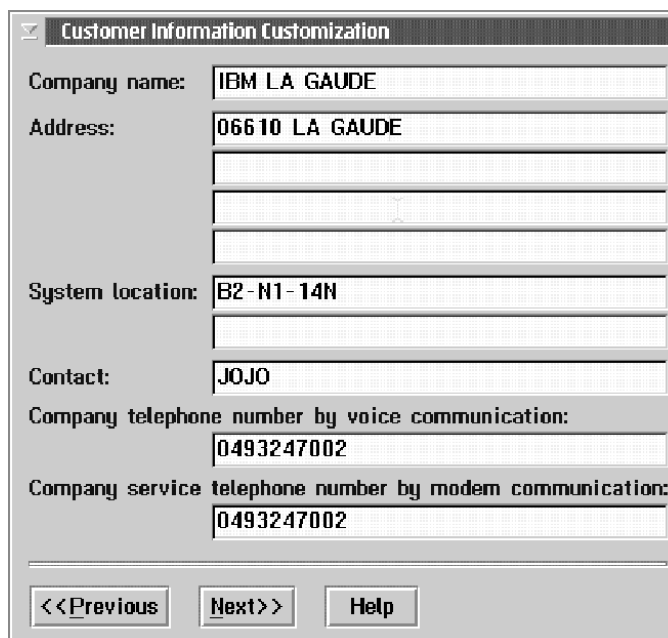
In particular, during the NNP and MAE code upgrade, two configuration options must be de-activated. They are:

- The **Generate alerts** option in the NetView Link(s) Reporting Customization window.
- The **Enable Remote Support** option in the RETAIN customization window.

You will be prompted to check these options in the rest of the procedure. Therefore continue with the next step.

- \_\_\_ 11. Check the screen resolution.

- \_\_\_ 12. Click on **Modem type** drop down list, then select the modem and connection type for the modem received as part of the BMs.
- \_\_\_ 13. Click on **Next>>** button to display the **Customer Information Customization** window.



The 'Customer Information Customization' window contains the following fields and buttons:

- Company name:** IBM LA GAUDE
- Address:** 066 10 LA GAUDE
- System location:** B2-N1-14N
- Contact:** JOJO
- Company telephone number by voice communication:** 0493247002
- Company service telephone number by modem communication:** 0493247002
- Buttons at the bottom: <<Previous, Next>>, Help

- \_\_\_ 14. Check the information recorded and make the necessary changes.
- \_\_\_ 15. Click on **Next>>** button to display the **SP Time and Date Customization** window.



The 'SP Time and Date Customization' window contains the following sections and controls:

- Battery-Operated Clock**
  - Time:** 12 [HH] 1 [MM]
  - Date:** 1 [MM] 13 [DD] 2000 [YYYY]
  - Day:** Thursday
- Time-Zone Offset from GMT**
  - Hours:** 1 [0 to 13]      **Direction:**
  - Minutes:** 0 [0 to 30]      ☒ East ☐ West
- Buttons: Apply, Refresh
- Buttons at the bottom: <<Previous, Next>>, Help

- \_\_\_ 16. Check the information recorded and make the necessary changes Press **Apply** to take into account the changes.
- \_\_\_ 17. Click on **Next>>** button to display the **Service LAN Addresses** window.

	IP address	Subnet mask	Hostname	UAA/LAA
Service Processor:	9.100.77.31	255.255.255.0	SPP5638	0006295ec62C
NMP-A:	9.100.77.32	255.255.255.0	CA034568	
NMP-B:	not installed			
TIC3 2080:	9.100.77.33	255.255.255.0		
SP default router:	9.100.77.30			
MAE:	not installed			

**LAN Manager**

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

<<Previous    Next>>    Help

\_\_\_ 18. Check the information recorded and make the necessary changes.

**Note:** If a controller is down, IP addresses cannot be changed.

\_\_\_ 19. Click on **Next>>** button to display the **NetView Link(s)/Reporting Customization** window.

**NetView Links/Reporting Customization**

☐ Generate alerts    ☐ Enable Netview RUNCMD

**NetView Links**

Links through? ☒ SNA ☐ APPN

How many? ☐ 1 ☒ 2

Link type? ☒ LAN ☐ SDLC

**Machine Identification**

Machine type	Model	Serial number
3745	17A	10 - P5638

**Local Node Characteristics**

Network ID	Local node name
SYSTSTAP	MOSSNMVT

**LAN Link**

TIC2 or TIC3 LAA: 400000502080 hex

TIC3 RSAP: 04 ☒ hexadecimal (04-9C)

Customize 3270 sessions? ☒ Yes ☐ No

**Switched SDLC Link Telephone Number**

0493247002

<<Previous    Next>>    Help

\_\_\_ 20. Check the configuration settings and keep record of the **Generate alerts** option.

3745 FFBM	PN 43P1332 15 of 42	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002			
--------------	------------------------	--------------------------	--------------------------	--	--	--

- If the **Generate alerts** option is selected, disable this option. Use Table 1 on page 35 to keep record of the customer configuration. Then return here and go to the next step.
- Otherwise, go to the next step.

\_\_\_ 21. Do not change any information. Click on **Next>>** button to display the **Token-Ring 3270 Session Customization** window.



The window titled "Token-Ring 3270 Session Customization" contains the following fields and controls:

- Host code page:** A dropdown menu showing "297 France".
- LU local/NAU address:** A text box containing "3" followed by a small icon and the text "numerical [3-255]".
- Long session/LU name:** A text box containing "B".
- Number of sessions:** A text box containing "1" followed by a small icon and the text "numerical [1-4]".
- At the bottom, there are three buttons: "<<Previous", "Next>>", and "Help".

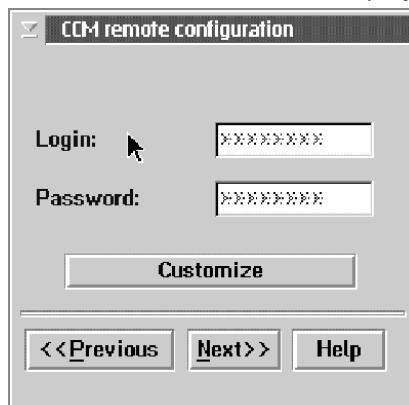
\_\_\_ 22. Check the information recorded and make the necessary changes.

#### Customize

Pressing the **Customize** pushbutton allows you to display and/or modify the login and password. This function is password-protected and requires the management password.

After entering the login and password, passwords that were hidden with asterisks, are shown and can be modified.

\_\_\_ 23. Click on **Next>>** button. to display the **CCM remote configuration**.



The window titled "CCM remote configuration" contains the following fields and controls:

- Login:** A text box filled with asterisks "\*\*\*\*\*".
- Password:** A text box filled with asterisks "\*\*\*\*\*".
- Below the text boxes is a button labeled "Customize".
- At the bottom, there are three buttons: "<<Previous", "Next>>", and "Help".



- \_\_\_ 24. Click on **Next>>** button to display the **Retain Customization** window.

- \_\_\_ 25. Check the configuration settings and keep record of the **Enable Support Facility (RSF)** option.

- If the **Enable Support Facility (RSF)** option is selected, disable this option. Use Table 1 on page 35 to keep record of the customer configuration. Then return here and go to the next step.
- Otherwise, go to the next step.

- \_\_\_ 26. Click on **Next>>**.

- If, in step 10 on page 13, you have selected **DCAF Link/Operations**, then the **DCAF Customization** window is displayed. Go to the next step.
- Otherwise, if you have selected **JAVA Link/Operations**, then the **Point-to-Point Protocol Configuration** window is displayed. Go to step 28 on page 18.

- \_\_\_ 27. The **DCAF Customization** window is displayed:

**DCAF Customization**

**Attached Consoles**

	LU name	Destination address (hexadecimal)	RSAP (hex [04-9C])
<input checked="" type="checkbox"/> SNA	DCAFSNA	400000502080	04
<input checked="" type="checkbox"/> APPN	DCAFAPPN	400000502080	08
<input checked="" type="checkbox"/> LAN	DCAFLAN		

**SDLC Attached Console**

☒ SDLC DCAFSDLC

Accept any incoming calls on SP? ☒ Yes ☐ No

Local phone number: 1111111111

<<Previous    Next>>    Help

Check the information recorded and make the necessary changes. Go to step 30 on page 19.

- \_\_\_ 28. The **Point-to-Point Protocol Configuration** window is displayed.

**Point-to-Point Protocol Configuration**

**PPP Server Customization**

Accept any incoming calls on SP? ☒ Yes ☐ No

Local phone number: 1111111111

	IP Address	Subnet mask	Hostname
PPP Server	9.100.77.36	255.255.255.0	SSPP5638
PPP Client	9.100.77.37	255.255.255.0	

DTE Speed: 115200    MRU Size: 1500

**PPP Client Login Customization**

	Customer	IBM Service
User Name	CSPP5638	ISPP5638
Password	*****	*****

View/Change Passwords

<<Previous    Next>>    Help

From this window, configure the PPP server parameters.

- Click on **No** to reject any incoming call.
- Type in the **Local Phone number** which is the phone number of the modem connected to the SP.
- Specify the **IP addresses** of:

- The **PPP-server**. This is PPP address of the **service processor**.
- The **PPP-client**. This is PPP address of the **remote station**.

These IP addresses must be in the same subnet than the IP addresses of the units connected to the service LAN.

- d. Select the correct **DTE speed** which must be set according to the type of the modem installed. Use the online help for more information.

#### View/Change Passwords

Pressing the **View/Change Passwords** pushbutton allows you to display and/or modify the password(s). This function is password-protected and requires the *management password*.

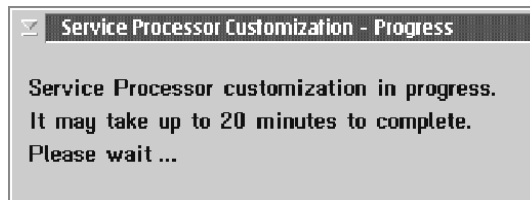
After entering the management password, passwords that were hidden with asterisks, are shown and can be modified in both the **Point-to-Point Protocol Configuration** and **Console for Java Configuration** windows, until you exit the function.

- \_\_\_ 29. Click on **Next>>** button to display the **JAVA Console Configuration** window.

- \_\_\_ 30. Do not change any information. Click on **Next>>** button to return to the **Service Processor (SP) Customization** window.

- \_\_\_ 31. Click on **Close**. The **SP customization Message** is then displayed:

- \_\_\_ 32. Click on **Yes** button to confirm the changes and start the Service Processor customization updating.



- \_\_\_ 33. Wait until completion. When completed, the following window is displayed:



- \_\_\_ 34. Click on **OK** button.
- If the service processor automatically re-boots, you will be prompted to log onto the MOSS-E. Then go to the next step.
  - If the service processor does not re-boot, go to the next step.
- \_\_\_ 35. Is there any NNP installed?
- **Yes**, go to 10.2.9, "Upgrading the NNP(s) on 3746-9x0."
  - **No**, go to 10.3.1, "Applying the Latest MCFs Received" on page 30.

## 10.2.9 Upgrading the NNP(s) on 3746-9x0

- \_\_\_ 1. From the **MOSS-E View** screen, double-click on the **3746-9x0** icon.
- \_\_\_ 2. From the **3746-9x0 Menu** screen, click on **Network Node Processor (NNP) Management**.
- \_\_\_ 3. Select **Manage Control Point (CP) on NNP**.
- \_\_\_ 4. If the **Automatic configuration activation** option is selected, go to the next step. Otherwise, go to step 6.
- \_\_\_ 5. Disable this option.
- \_\_\_ 6. Press **Close** to exit.
- \_\_\_ 7. From the **Network Node Processor (NNP) Management** menu, select **Install/Remove/Change/Restore LIC/NNP**.
- \_\_\_ 8. Select **NNP-A** to upgrade the LIC on NNP-A or **NNP-B** to upgrade the LIC on the backup NNP. Then click on **Restore LIC on NNP**.
- \_\_\_ 9. When requested, insert the NNP Installation diskette, **PN 43P1273**, in the **SP diskette drive**.
- \_\_\_ 10. Select the NNP type and follow the prompts to remove the NNP Installation diskette from the SP and install it in the **NNP diskette drive**.
- \_\_\_ 11. Follow the prompts and wait until **NNP LIC restoration operation successfully completed** is displayed. The NNP LIC restoration can last

about 45 minutes. During the LIC restoration, click on OK to clear the alarm saying that the SP/APPN CP link has been lost.

- \_\_\_ 12. Click on **Close**. Then clear the reconnection alarm.
- \_\_\_ 13. If a backup NNP (NNP-B) is installed, return to step 7 on page 20. Otherwise, continue with the next step.
- \_\_\_ 14. Wait until the NNP icon(s) shown on the **MOSS-E View**, become blue.
- \_\_\_ 15. If, in step 5 on page 20, you have disabled the **Automatic configuration activation** option, go to the next step. Otherwise, go to step 20.
- \_\_\_ 16. From the **3746-9x0 Menu**, select **Network Node Processor (NNP) Management**.
- \_\_\_ 17. From the **Network Node Processor (NNP) Management** menu, select **Manage Control Point (CP) on NNP**
- \_\_\_ 18. Enable the **Automatic configuration activation** option.
- \_\_\_ 19. Press **Close** to exit.
- \_\_\_ 20. Is there any MAE installed?
  - **No**, go to 10.3.1, “Applying the Latest MCFs Received” on page 30.
  - **Yes**, check whether you have to migrate the MAE installed from **FC 3000** to **FC 3001**?
    - **No**, go to 10.2.11, “Installing the MAE” on page 22.
    - **Yes**, go to 10.2.10, “Migrating the MAE.”

## 10.2.10 Migrating the MAE

- \_\_\_ 1. Verify the **PN** of the **MAE system card** plugged in your MAE.  
If the **PN** of the card is one of the following: **78H6297, 11J7464, or 89H8395**, use the installation instructions **PN 02L4064** to replace the card. When complete, go to the next step.
- \_\_\_ 2. Use the installation instructions **PN 02L1268** to install the new hardware required to support FC 3001. When complete, go to the next step.
- \_\_\_ 3. Check whether the customer wants to remove the user token-ring kit (if any) between the MAE and the 3746-9x0?
  - Yes. Continue with the next step.
  - No. Go to step 5.
- \_\_\_ 4. Use the installation instructions **PN 26L0379** to remove the user token-ring link. When complete, go to next step.
- \_\_\_ 5. Go to 10.2.11, “Installing the MAE” on page 22.

## 10.2.11 Installing the MAE

- \_\_\_ 1. Double click on the "**3746-9X0 object icon**"
- \_\_\_ 2. Click on "**Multiaccess Enclosure Management**".
- \_\_\_ 3. Now double click on **Install/Remove/Change LIC on MAE**.

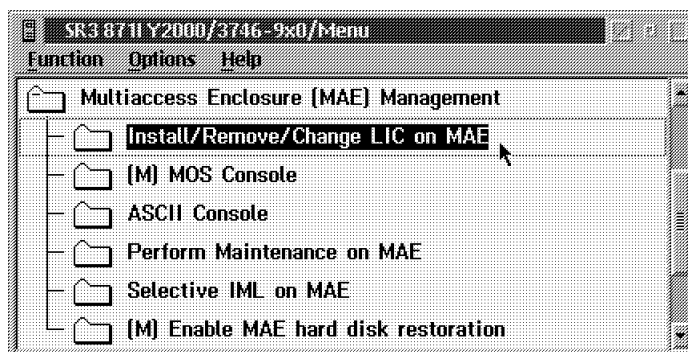


Figure 1. Install Multiaccess Enclosure

- \_\_\_ 4. Check the MAE installation status:
  - If **installed**, click on **Change LIC on MAE...**, then go to step 8 on page 23.
  - Otherwise, click on **Install MAE...**, then go to step 5 on page 23.

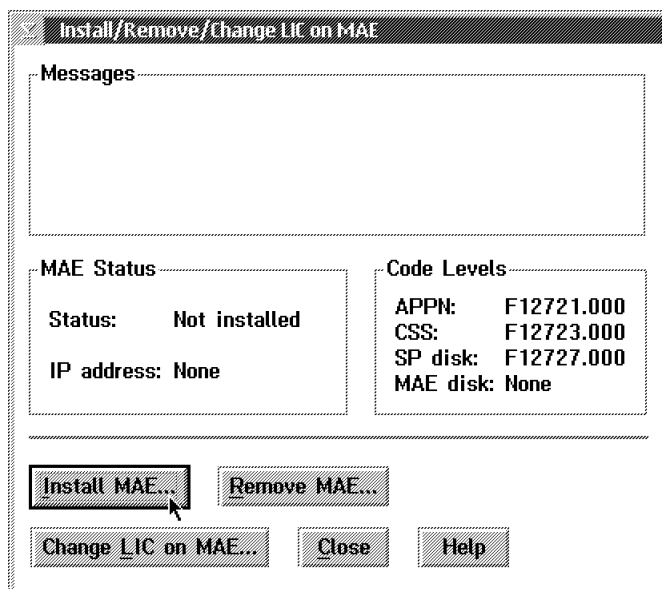



Figure 2. Install Multiaccess Enclosure

- \_\_\_ 5. Verify or enter the **MAE IP address**, then click on **OK**.



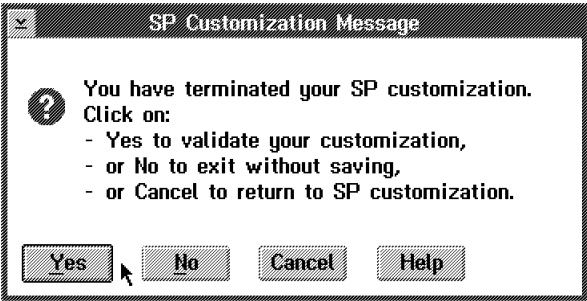
The 'Service LAN Addresses' dialog box contains a table with the following data:

	IP address	Subnet mask	Hostname	UAA/LAA
Service Processor:	9.100.77.31	255.255.255.0	SPP5638	
NNP-A:	9.100.77.32	255.255.255.0	CA034568	
NNP-B:		255.255.255.0		
TIC3 2080:	9.100.77.33	255.255.255.0		
SP default router:	9.100.77.33			
MAE:	9.100.77.34	255.255.255.0	DA034568	

Below the table, there is a section labeled 'LAN Manager' with the text 'Do you have a LAN manager?' followed by radio buttons for 'Yes' and 'No'. To the right is a text field for 'CRSM LAN ID:'. At the bottom are 'Cancel', 'OK', and 'Help' buttons.

Figure 3. Service LAN Addresses

- \_\_\_ 6. Click on **Yes** to record your parameters.



The 'SP Customization Message' dialog box contains the following text:

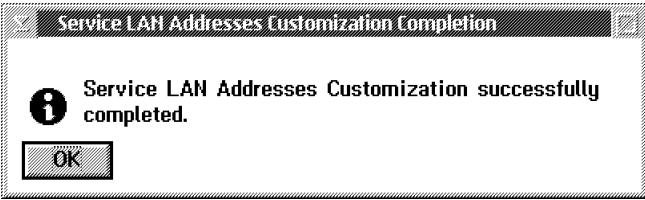
**? You have terminated your SP customization. Click on:**

- Yes to validate your customization,
- or No to exit without saving,
- or Cancel to return to SP customization.

At the bottom are 'Yes', 'No', 'Cancel', and 'Help' buttons.

Figure 4. SP Customization Message

- \_\_\_ 7. When completed, click on **OK**.



The 'Service LAN Addresses Customization Completion' dialog box contains the following text:

**i Service LAN Addresses Customization successfully completed.**

At the bottom is an 'OK' button.

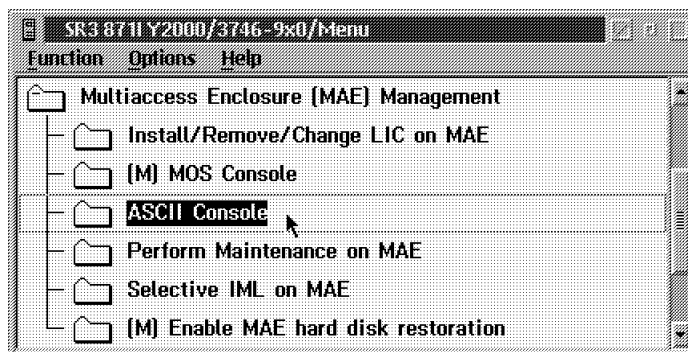
Figure 5. SP Customization Completed

- \_\_\_ 8. Follow the prompts. The MAE code is now being installed: the transferred files are displayed on the window (it takes about 10 mn). Wait until **Operation successfully completed** is displayed, then click on **Close**.

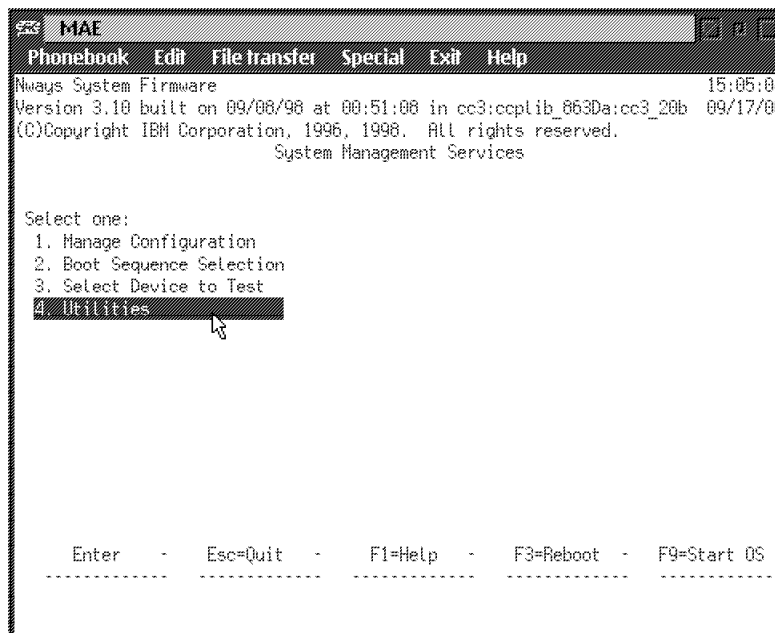
**Note:** After a few minutes, verify that the MAE link icon is **green** (polling the MAE does not start immediately to give the green icon).

## 10.3 Installing the Firmware

1. Double click on **ASCII Console**.

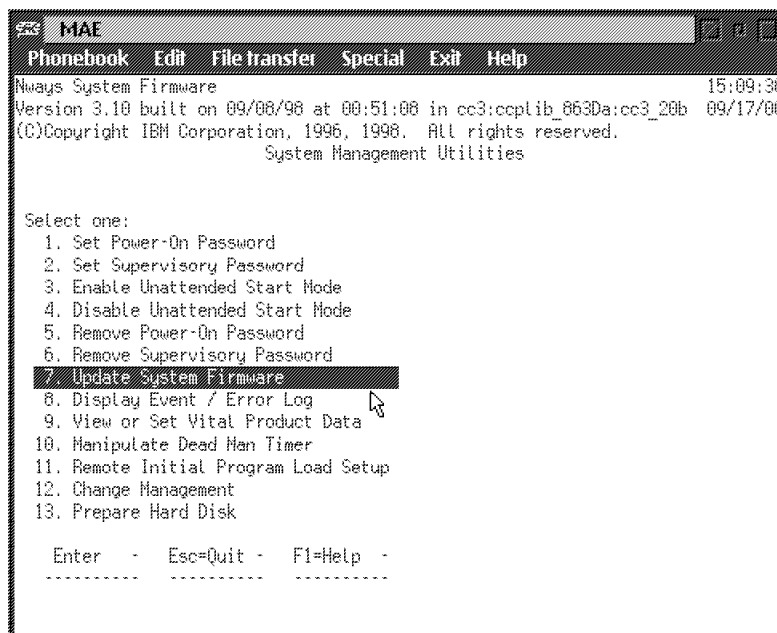


2. Press the **Reset** button on the MAE (located on the front of the MAE system card).
3. Several window are displayed during tests. Wait until the **Boot Information** window is displayed.
4. Press **F1** when prompted (to prematurely terminate boot).
5. On the **System Management Services** window, select **option 4 - Utilities**, press **Enter**.



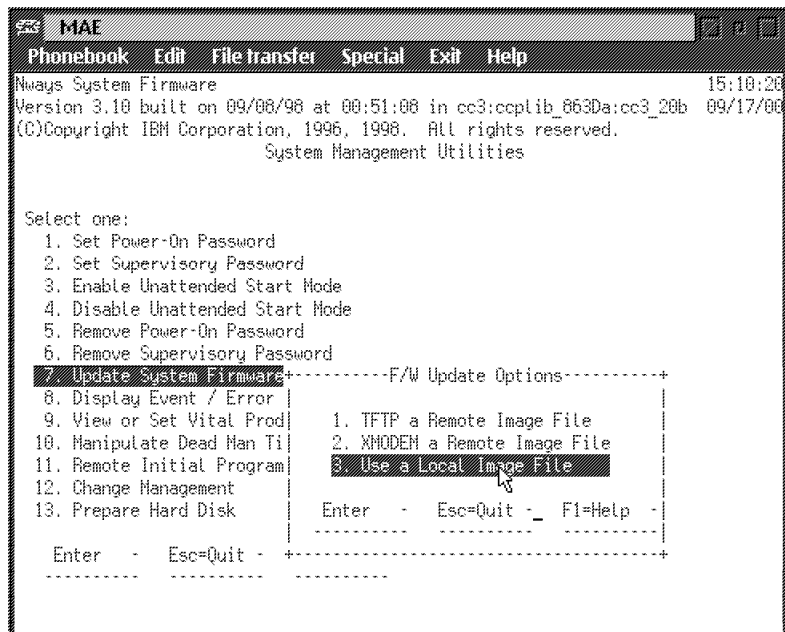


- \_\_\_ 6. Enter the Multiaccess Enclosure supervisory password when required:  
**2216.**
- \_\_\_ 7. Select **7. Update System Firmware** from the utilities panel, press **Enter**.



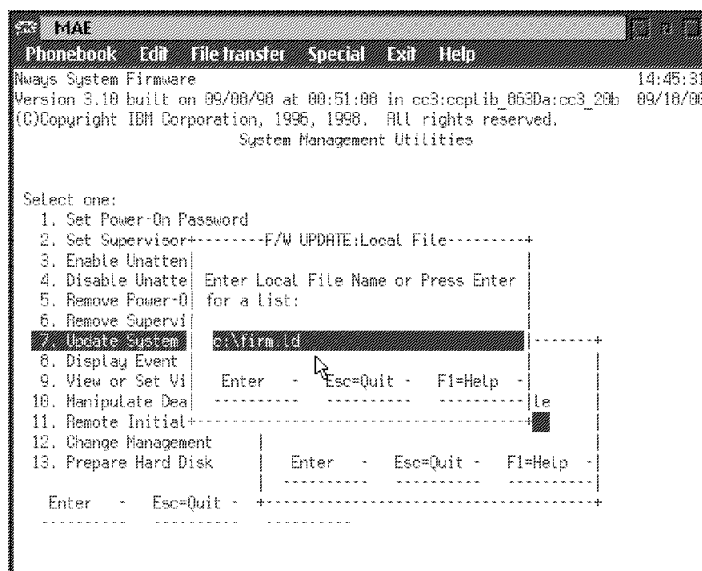
Do not power off the multiaccess enclosure while updating the firmware. In case of failure, the multiaccess enclosure re-boots with a back-up firmware image. If that happens, repeat the procedure to reload the onboard firmware image.

- \_\_\_ 8. From the **F/W Update Options** menu, select **3. Use a Local Image File**, then press **Enter** and follow the prompts.

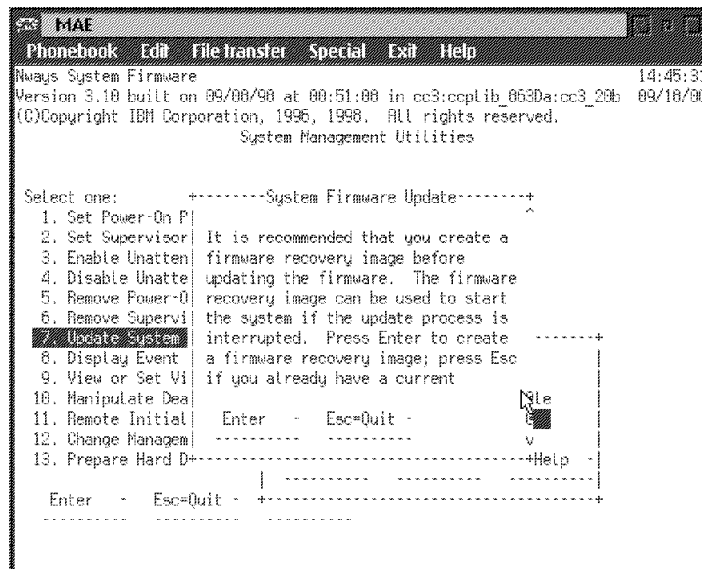


9. Enter the **Local File Name:** **c:\firm.id**, then press **Enter**.

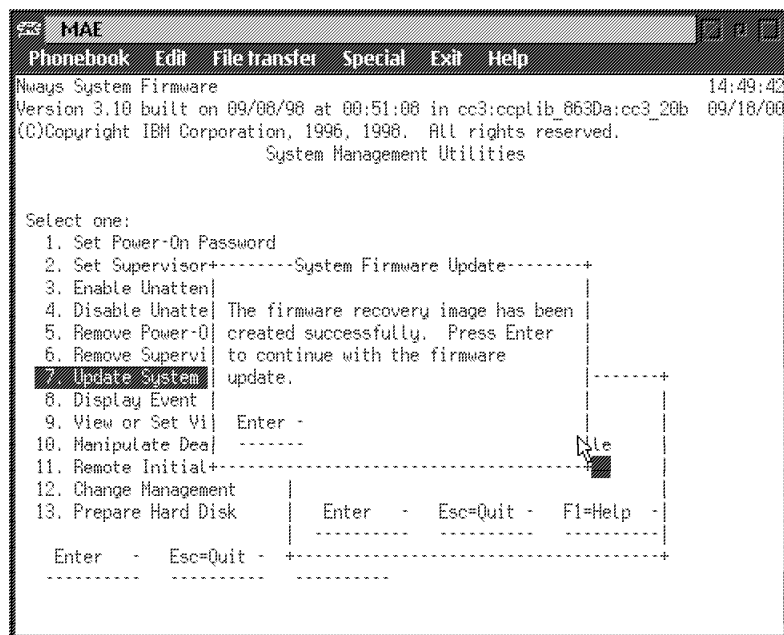
**Note:** If the firmware loaded on the MAE system card is at the same level as the firmware loaded on the SP hard drive, you will get the following message: *The firmware update file is at the same level as the system firmware. Firmware update cancelled. Press enter.* Then go to 10.3.1, "Applying the Latest MCFs Received" on page 30, otherwise continue with the next step.



\_\_\_ 10. When this window is displayed, press **Enter**.

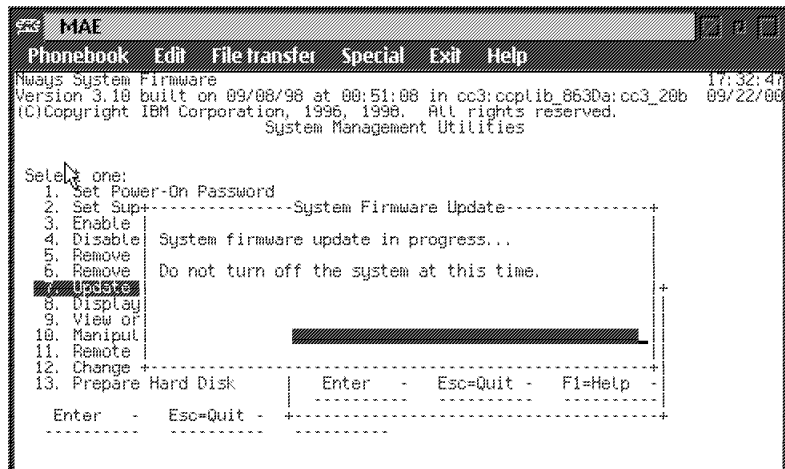


\_\_\_ 11. When recovery image has been done, press **Enter**.



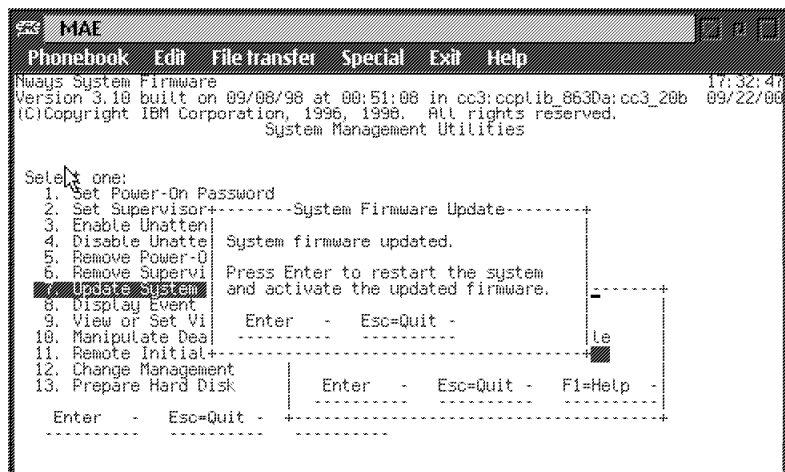
\_\_\_ 12. On confirmation window, press **Y**. Then when this window is displayed, press **Enter**.

\_\_\_ 13. Several windows are displayed following by:



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

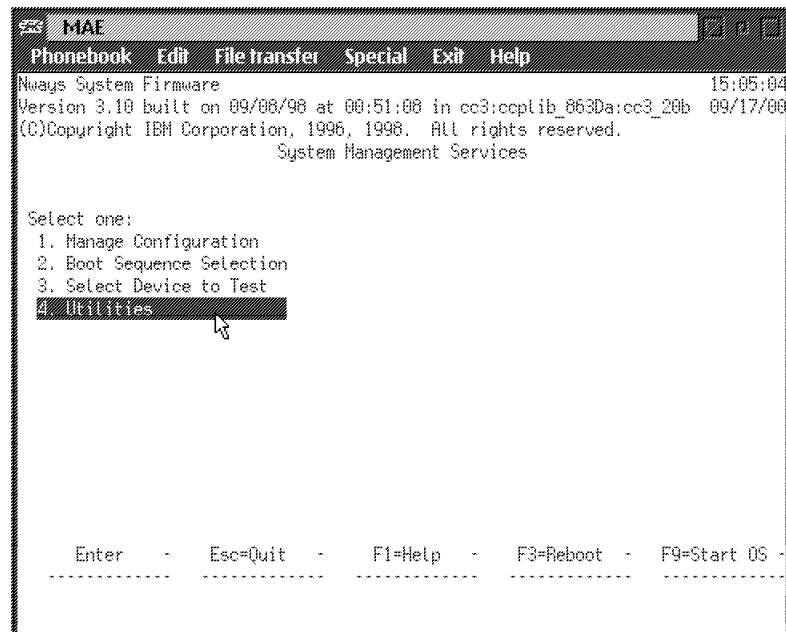
\_\_\_ 14. When complete, a message is displayed.



\_\_\_ 15. Press **Enter** to restart the system.

\_\_\_ 16. Wait until the boot information window is displayed, then terminate the MAE boot by pressing **F1** when prompted.

\_\_\_ 17. On the **System Management Services** window, select **option 4 - Utilities**, press **Enter**.



\_\_\_ 18. Check the IP addressing by selecting **(11) Remote Initial Program Load Setup** and pressing **Enter**.

\_\_\_ 19. Select **(1) IP Parameters** and press **Enter**.

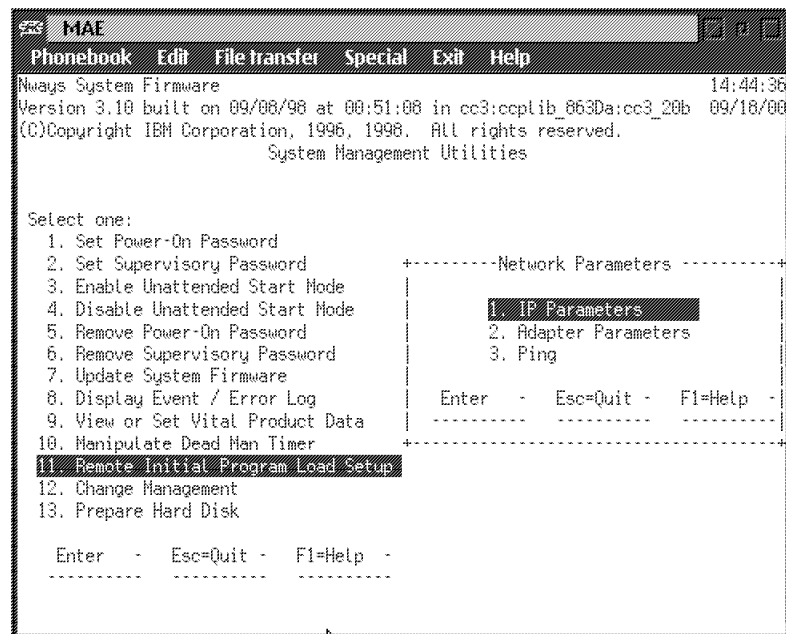
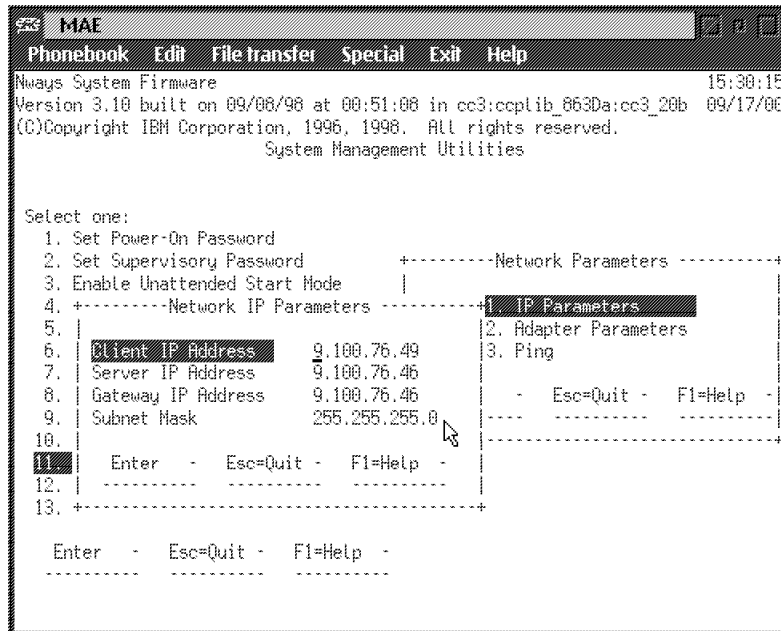


Figure 6. MAE

\_\_\_ 20. Check that the following IP addresses and mask are the same as the ones defined in step 5 on page 23:

- Client IP address (MAE address of the PCMCIA card)
- Server IP address (service processor address)
- Gateway IP address (if no router on the ring, check the service processor IP address)
- Subnet Mask.



\_\_\_ 21. Press **Esc** three times.

\_\_\_ 22. Then close the ASCII window and go to 10.3.1, “Applying the Latest MCFs Received.”

### 10.3.1 Applying the Latest MCFs Received

Have you received from your Support Center any MCFs to be installed on the new LIC?

- **Yes**, then apply the MCFs received according to procedure '**Handling the Microcode Fixes on the Licensed Internal Code**' listed in the SPIM or Service User's Guide shipped with your SP.
- **No**, then go to 10.4, “Procedure 2 - 3746-9x0 Code Level Upgrade” on page 31.

**End of Procedure 1.**

**Go to 10.4, “Procedure 2 - 3746-9x0 Code Level Upgrade” on page 31.**

## 10.4 Procedure 2 - 3746-9x0 Code Level Upgrade

### Important

Ask the Customer for a maintenance window on the 3746-9x0 with traffic deactivated.

### 10.4.1 3746-9x0 EEPROM Upgrade

- \_\_\_ 1. Click on **3746-9x0 Menu**.
- \_\_\_ 2. Click on **Change Management**.
- \_\_\_ 3. Double click on **Upgrade/Downgrade EEPROM**.
- \_\_\_ 4. The **Upgrade Status** area will show the processors to be changed in reverse video.
- \_\_\_ 5. Click on **OK** to start the upgrade function, wait (up to 10 minutes) until the Upgrade Status is completed for each processor.
- \_\_\_ 6. Click on **Cancel** to leave the function.

### 10.4.2 Performing a General IML



After installing the code, numerous **SRCs** and **alarms** can be generated. Just clear the messages and continue with the current procedure.

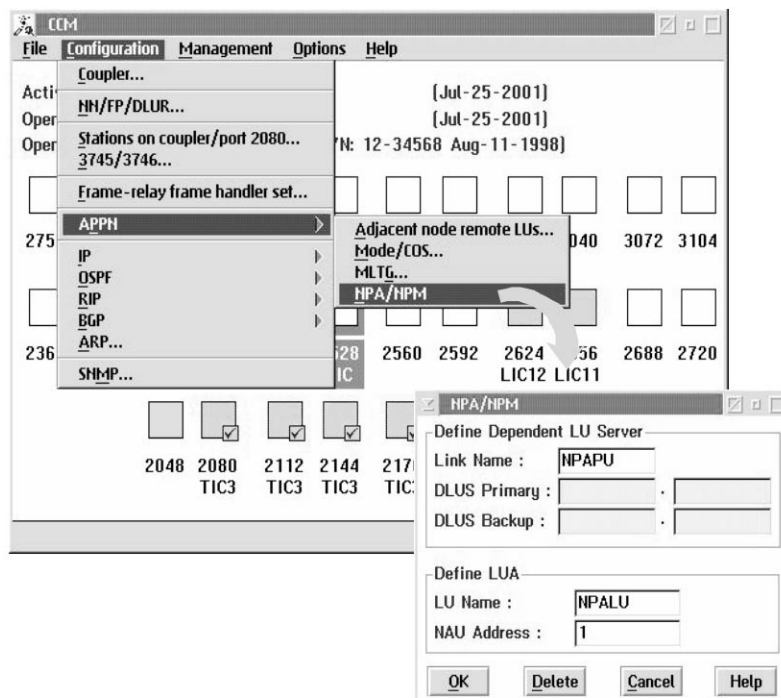
- \_\_\_ 1. On the **MOSS-E View** screen, double click on the **3746-9x0** icon.
- \_\_\_ 2. On the **3746-9x0 Menu** screen, click on **Operation Management**.
- \_\_\_ 3. Double click on **Perform a General IML**; Then click on the **Yes** button.
- \_\_\_ 4. On the **Perform a General IML** window, click on **NO** to start an IML without diagnostic.

### 10.4.3 Configuring NetView Performance Monitor (NPM)

- \_\_\_ 1. Is there an NNP installed?
  - **Yes** - Continue with the next step.
  - **No** - Go to 10.5, "Recording the Customer Configuration Settings" on page 35.
- \_\_\_ 2. Do you intend to use NPM?
  - **Yes** - Continue with the next step.
  - **No** - Go to 10.4.4, "Migrating the Active Configuration using CCM" on page 32.
- \_\_\_ 3. From **CCM**, configure NPM:

Only the parameters for DLUS PRIMARY and DLUS BACKUP can be changed. The PU and LU names are fixed to **NPAPU** and **NPALU**. These parameters do not need to match the PU and LU definitions in

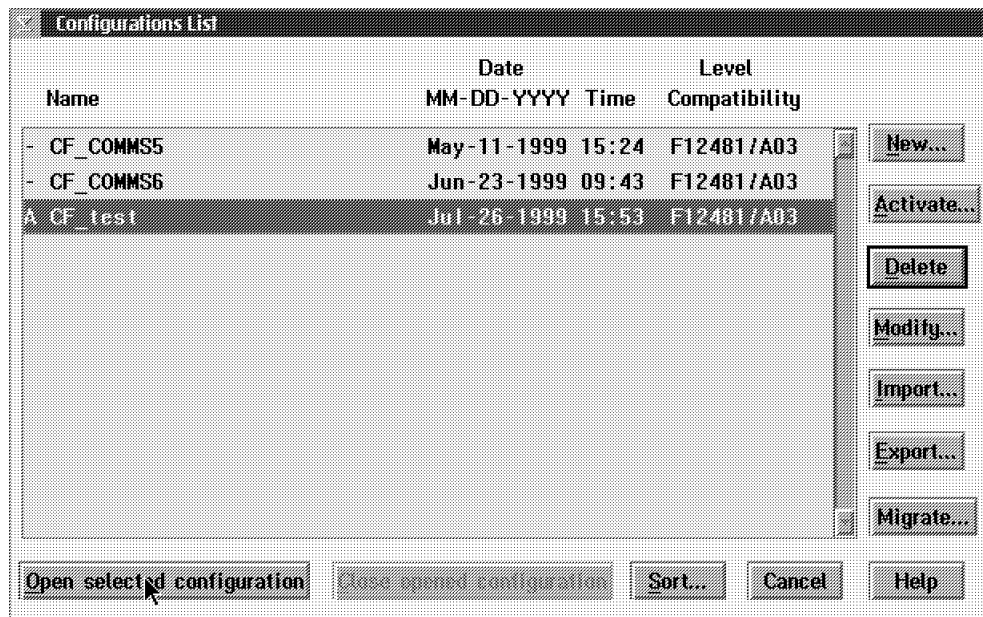
Switch Major Node. The NAU ADDRESS is fixed to 1 and should be the same as the LOCADDR specified in Switch Major Node.



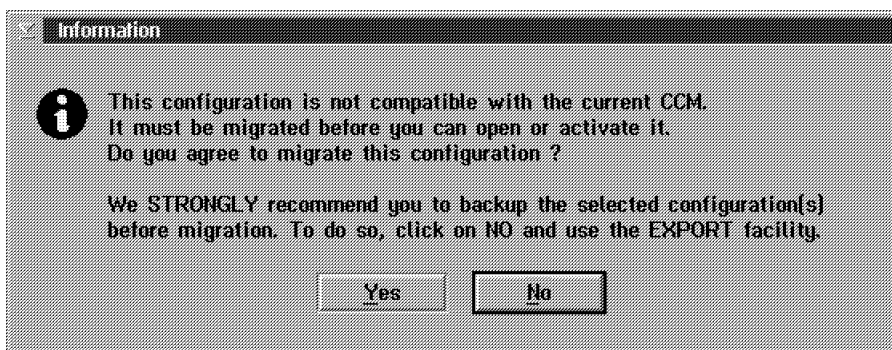
#### 10.4.4 Migrating the Active Configuration using CCM

- 1. From the **Network Node Processor (NNP) Management** menu, select **CCM - Controller Configuration and Management**.
- 2. From the CCM main window, select **File** → **Open....** The following window is then displayed:





- \_\_\_ 3. From the configuration list, select the configuration with the letter **A** before the configuration name and click on **Open selected configuration**.
- \_\_\_ 4. According to the configuration compatibility with the current CCM, one of the following occurs:
  - The configuration is compatible with the current CCM. Then, the procedure is complete. Go to 10.4.5, "Activating the Migrated Configuration" on page 34.
  - Otherwise, the configuration is not compatible with the current CCM, then the following information window is displayed. Continue with next step.



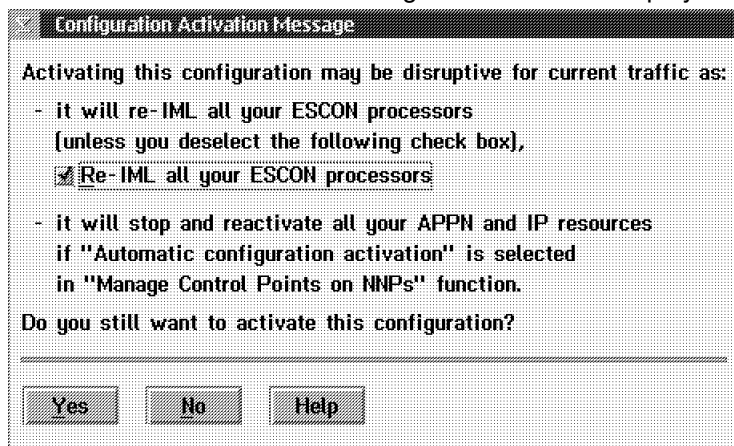
- \_\_\_ 5. Press **Yes** to migrate the configuration. It is not necessary to save the configuration before migrating it, because it has been already saved on the configuration parameter diskette. When the configuration has been successfully migrated, the following window is displayed:



- \_\_\_ 6. Press **OK**.
- \_\_\_ 7. Close the opened configuration by selecting **File** → **Close opened configuration**.
- \_\_\_ 8. You can now activate the migrated configuration. Go 10.4.5, "Activating the Migrated Configuration."

## 10.4.5 Activating the Migrated Configuration

- \_\_\_ 1. From the CCM main window, select **File** → **Open...**
- \_\_\_ 2. From the configuration list, select the configuration with the letter **A** and click on **Activate...** The following window is then displayed:



- \_\_\_ 3. Check that the **Re-IML all your ESCON processors** option is selected and click **Yes**.

### End of Procedure 2.

Is there another 3746-9x0 installed:

- **Yes**, then return to 10.4, "Procedure 2 - 3746-9x0 Code Level Upgrade."
- **No**, then go to 10.6, "Returning the Machine to Customer."

## 10.5 Recording the Customer Configuration Settings

When performing the service processor customization during the LIC Installation (see step 10 in 10.2.8, "LIC Installation" on page 12), use Table 1 in order to keep record of the configuration of the following options:

- Generate alerts
- Enable Remote Support

When returning the machine to the customer, if you modify any of these options, you must re-configure these options as they were previously configured.

Table 1. Customer Configuration Settings		
Option Customer Setting	Selected	Not Selected
Generate alerts		
Enable Remote Support		

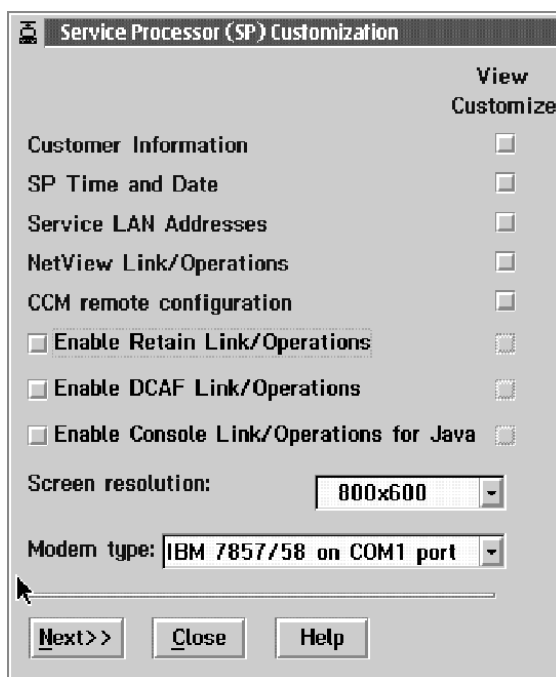
## 10.6 Returning the Machine to Customer

1. Have you migrated an MAE from FC 3000 to FC 3001?
  - Yes, go to next step.
  - No, go to step 3.
2. If the customer has decided to remove the token-ring link between the MAE and the 3746-9x0 (no APPN or NCP traffic between the MAE and 3746), ask the customer to update the configuration by removing the definition of the resources used for this link. Then continue with next step.
3. Check in Table 1 whether, during the service processor customization, you have modified the following options:
  - **Generate alerts** option
  - **Enable Remote Support** option.

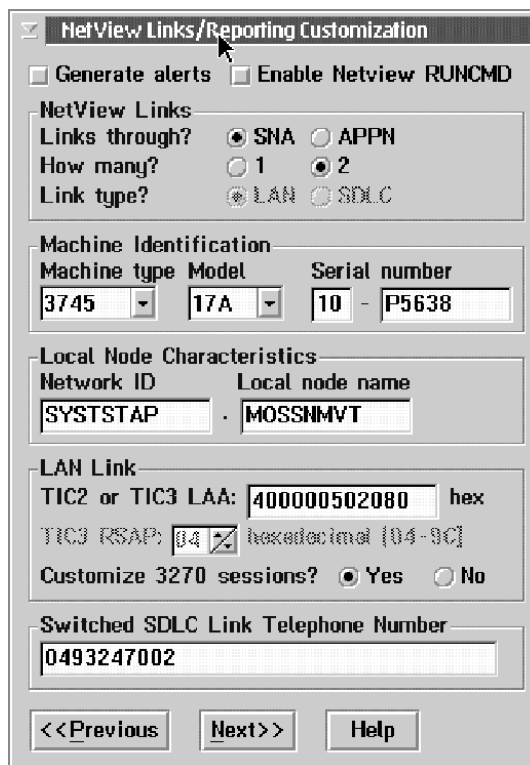
If you have changed one of these options or both, then go 10.7, "Re-configuring Service Processor Customization Options" on page 36. Otherwise, continue with 10.7.3, "Adapter Code Loading per Processor Type" on page 39.

## 10.7 Re-configuring Service Processor Customization Options

1. Select the **SP Customization** function from the **Service Processor configuration** menu to display the **Service Processor (SP) Customization** window.



2. Depending on the change you made, do one of the following:
  - If you have modified both options, click on the **NetView Link/Operations** and the **Enable Retain Link/Operations View Customize** check-boxes and go to next step.
  - If you have modified only the **Generate alerts** option then select the **NetView Link/Operations View Customize** check-box and go to next step.
  - If you have modified only the **Enable Remote Support** option then select the **Retain Link/Operations View Customize** check-box and go to step 5 on page 37.
3. Press **Next>>** to display the **NetView Link(s)/Reporting Customization** window



**NetView Links/Reporting Customization**

☐ Generate alerts ☐ Enable Netview RUNCMD

**NetView Links**

Links through? ☒ SNA ☐ APPN  
 How many? ☐ 1 ☒ 2  
 Link type? ☒ LAN ☐ SDLC

**Machine Identification**

Machine type Model Serial number  
 3745 17A 10 P5638

**Local Node Characteristics**

Network ID Local node name  
 SYSTSTAP MOSSNMVT

**LAN Link**

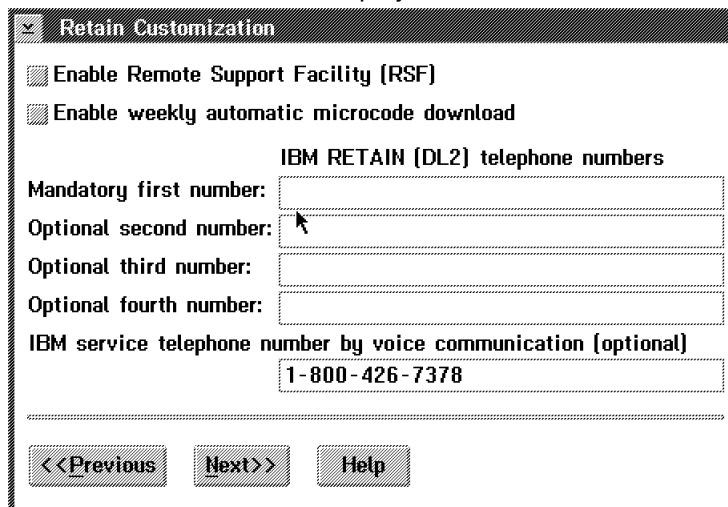
TIC2 or TIC3 LAA: 400000502080 hex  
 TIC3 RSAP: 04 hexadecimal (04-9C)  
 Customize 3270 sessions? ☒ Yes ☐ No

**Switched SDLC Link Telephone Number**

0493247002

<<Previous Next>> Help

- \_\_\_ 4. Select the **Generate alerts** option.
- \_\_\_ 5. Click on **Next>>** button to display the **Retain Customization** window.



**Retain Customization**

☒ Enable Remote Support Facility (RSF)  
☒ Enable weekly automatic microcode download

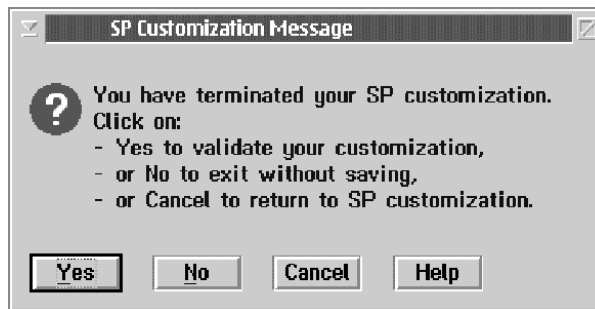
**IBM RETAIN (DL2) telephone numbers**

Mandatory first number:   
 Optional second number:   
 Optional third number:   
 Optional fourth number:   
 IBM service telephone number by voice communication (optional)  
 1-800-426-7378

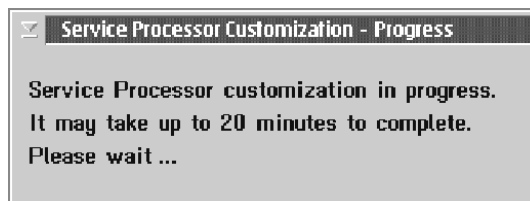
<<Previous Next>> Help

- \_\_\_ 6. Select the **Enable Support Facility (RSF)** option.
- \_\_\_ 7. Click on **Next>>** button to return to the **Service Processor (SP) Customization** window.

- \_\_\_ 8. Click on **Close**. The **SP Customization Message** is then displayed:



- \_\_\_ 9. Click on **Yes** button to confirm your customization and start the Service Processor customization updating.



- \_\_\_ 10. Wait until completion. When completed, the following window is displayed:



- \_\_\_ 11. Click on **OK** button.
- \_\_\_ 12. Go to 10.7.3, "Adapter Code Loading per Processor Type" on page 39.

### 10.7.1 Saving Configuration Parameters

- \_\_\_ 1. Double click on the **Service Processor** icon.
- \_\_\_ 2. Click on **Operation Management**.
- \_\_\_ 3. Double click on **Manage Disks and Databases**.
- \_\_\_ 4. Use the radio button to select **Save databases on diskette** to save the configuration parameters. When prompted, insert Configuration Parameters diskette, **PN 02L3427**, into the diskette drive.
- \_\_\_ 5. Click on **OK** and wait for completion. If error, record the message and contact support.
- \_\_\_ 6. Remove the diskette, then click on **Cancel** to exit from the function.

## 10.7.2 Updating Installation Parameters Diskettes

Once you have upgraded the hardware of the machine, you have to regenerate the format on the Installation Parameters Diskettes using the following procedure: (Duration approximately 13 minutes)

- \_\_\_ 1. On the **Service Processor** menu, click on **Configuration Management**, click on **Manage 3745/3746 Installation/Removal**.
- \_\_\_ 2. On the **Controller Installation** menu, Click on the **3746-9x0** installed, then Click on **SAVE**.

Following pop up window confirming **Saving Active CDF-E as Reference**:

- \_\_\_ 3. Insert the **3746-900 installation parameters diskette (PN 17G5878)** of the 3746-9x0, then click on **OK**.
- \_\_\_ 4. On the third pop up screen confirming CDF-E saved to diskette, remove diskette as instructed, click on **OK**.
- \_\_\_ 5. Perform the above saving procedure for the backup diskettes, then click on **Cancel**.

## 10.7.3 Adapter Code Loading per Processor Type

### Note

This procedure is used to define which network routing protocol is loaded per processor type. If your customer does not want to specify this information, go to 10.7.4, "Logging OFF from Service Processor" on page 41 (All protocols will be loaded in all types of processors).

- \_\_\_ 1. On the **Service Processor** menu, click on **Configuration Management**, then click on **Manage 3745/3746 Installation/Removal**
- \_\_\_ 2. On the **Controller Installation** menu, select the 3746-9x0 by clicking on the **<3746-9x0>** line, then click on **"Select Feature"**.

3745 FFBM	PN 43P1332 39 of 42	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002			
--------------	------------------------	--------------------------	--------------------------	--	--	--

Controller Installation

Select an item:

Controller	Type	Model	S/N	Last changes saved
BS8-810L				
	<3745 not installed>			
	3746	950 (APPN)	12-34567	<Not saved>
BS FVT				
	3745	900	BS-24681	<Not saved>
	3746	900	BS-24681	<Not saved>
<New>	<3745 not installed>			
	<3746 not installed>			
<New>	<3745 not installed>			
	<3746 not installed>			
<New>	<3745 not installed>			
	<3746 not installed>			

Add...

Save...

Remove...

Clean...

Change...

Repair...

Select Feature

Cancel

Help

3746 M.E.S. 900 -> 950

3. On the **Features Selection** menu, click on **OK**.

Features Selection

Select the features/functions you want to install and enter corresponding passwords:

Features	Password	Extended Functions	Password
<input checked="" type="checkbox"/> APPN/HPR	no password	<input type="checkbox"/> 3746 (FC.5800)	
<input checked="" type="checkbox"/> IP	XXXXXXXXXX	<input type="checkbox"/> MAE (FC.5804)	
<input type="checkbox"/> X.25		<input type="checkbox"/> TN3270E Server (FC.5806)	
<input type="checkbox"/> ISDN	no password	<input type="checkbox"/> 3745RMAE (FC.5810/5811)	
		Extended Functions 4	
		<input type="checkbox"/> Extended Functions 5 (FC.5812)	
		<input type="checkbox"/> Extended Functions 6 (FC.5813)	

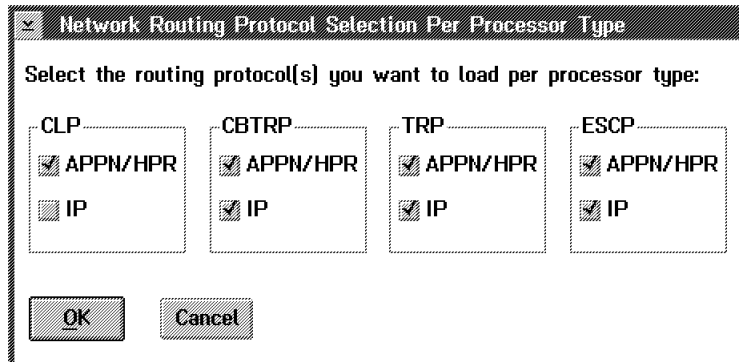
OK

Cancel

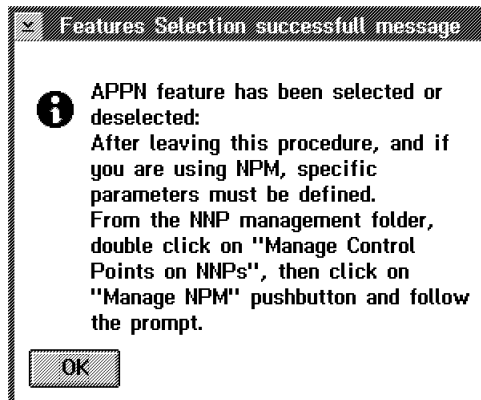
Help



- \_\_\_ 4. According to the customer's requirement, On the **Network Routing Protocol Selection Per Processor Type** menu, disable or enable the protocol loaded per processor type, then click on **OK** button.



- \_\_\_ 5. Read the information message, then click on "OK" button.



- \_\_\_ 6. When completed, click on "OK" and perform a general IML to activate the feature installed, then go to 10.7.4, "Logging OFF from Service Processor"

## 10.7.4 Logging OFF from Service Processor

- \_\_\_ 1. On **MOSS-E View** window, click on **Program**.
- \_\_\_ 2. Click on **LOG OFF MOSS-E**.

## 11.0 Test Procedures

Not applicable.

## 12.0 Field Updating

None.

3745 FFBM	PN 43P1332 41 of 42	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002			
--------------	------------------------	--------------------------	--------------------------	--	--	--

---

## After Installation (Steps 13-15)

### 13.0 Publications Update

None.

### 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 to existing procedures.

**End of instructions.**