

**Installation of
Field Feature Bill of Material (FFBM)
PN 10K8770, 10K8771, 43P1318, or 43P1319
Service Processor Upgrade to Type 4
6563-65U or 6578-RAU (FC 5450)
on IBM 3745 Models 17A, 21A, 31A, 41A or 61A
or IBM 3746 Models 9x0**

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3745 FFBM	PN 43P1333 1 of 40	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002	EC H10030D 20 JUN 2003		
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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
10K8770 or 10K8771 or	Install Service Processor
43P1318 or 43P1319	

- RSF modem

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

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.

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.

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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 replace old service processor system unit, display, and modem by the new one based on SP type 6563-65U or 6578-RAU and modem 7857, 7858, or Hayes.

6.2 Description

Install/replace a Service Processor.

7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.	Nbr of CE
10K8770 or 10K8771 or 43P1318 or 43P1319	see Note	00.0	1

Note: Machine time depends on configuration: from one hour up to two hours if NNP and MAE are present. Disruptive for customer operations.

8.0 Safety

None.

9.0 Details of Installation

9.1 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 9.1.5, "Saving Configuration on Diskette" on page 8.
- Any other EC level **prior to F12380** (microcode available on **OD**) , go to 9.1.1, "Saving the Configuration on the Optical Disk."

9.1.1 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.

9.1.2 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"**.

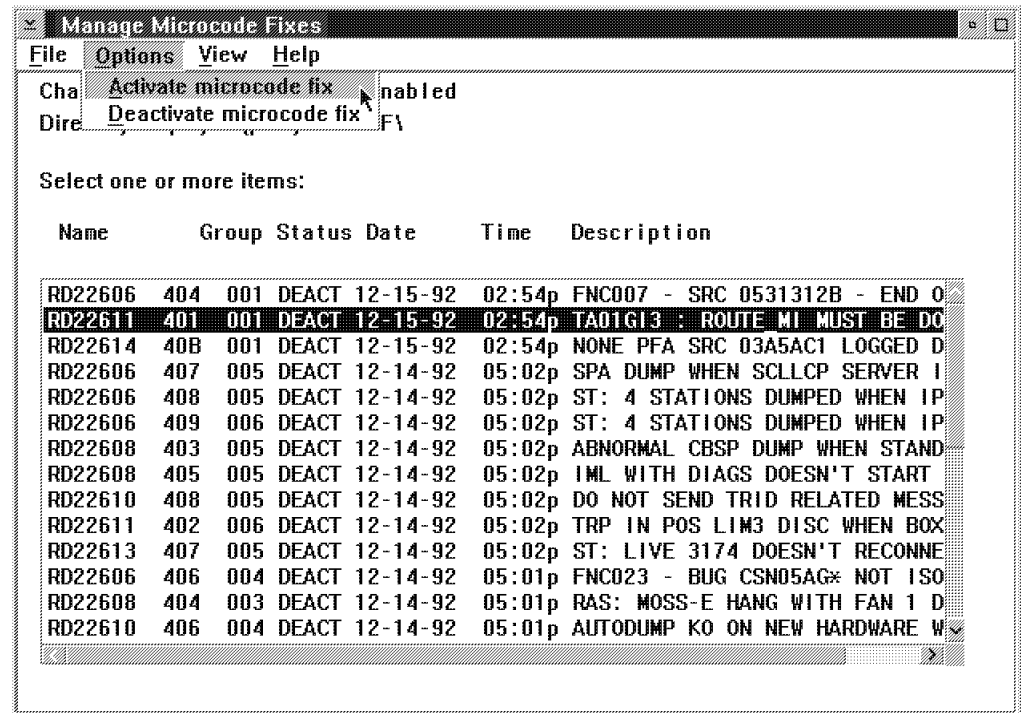
Enter the full path of path or directory to be displayed following the format {drive:\directory\filename.extension or *}, or click on the OK push button for default directory:

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



Note: The current MCF is not shown on the preceding screen capture.

9.1.3 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 that has just been applied must change to ACT. If so continue with the next step. Otherwise, call the Support Center.
- ___ 6. Exit the **Change Management** function.

9.1.4 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 9.1.1, "Saving the Configuration on the Optical Disk" on page 5).
- ___ 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 diskette (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, 9.1.6, "Shutdown the Service Processor" on page 9 .

9.1.5 Saving Configuration on Diskette

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

- ___ 1. If not already logged on, 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, 9.1.6, “Shutdown the Service Processor” .

9.1.6 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.

9.1.7 Removing the Service Processor

- ___ 1. Disconnect and remove the (old) Service Processor system unit, display, and external modem.
- ___ 2. If an external CD-ROM or an external ODD is present disconnect and remove it.

9.1.8 Packing the Service Processor

The following parts must be returned:

Part Returned	Quantity
Control Unit	1
Display	1
External modem (if present)	1
External CD-ROM (if present)	1
External optical disk drive (if present)	1

All parts are identified by their part number (PN) which should be visible except for:

- The control units based on PS type 9577 and type 9585
- The CD-ROM
- The ODD.

Stick a part number label on the preceding parts, using the following procedure:

- ___ 1. On the blank labels (PN 811825) provided with the FFBM write the part number corresponding to the part returned:
 - PN 03K5505 or 43P1292 for ODD
- ___ 2. Peel the label and stick it on to the corresponding part.

- ___ 3. Carefully pack all the parts to be returned.

9.1.9 Installing the New Service Processor

- ___ 1. Install the (new) Service Processor system unit, display, and modem according to the instructions given 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 with the new service processor.

9.1.10 LIC Installation

- ___ 1. Insert the Service Processor Installation diskette, **PN 43P1275**.
- ___ 2. Then, power **ON** the Service Processor and while the system is starting, insert the **Licensed Internal Code CD ROM** provided with the new service processor into the drive.
- ___ 3. When the diskette is booted, follow the prompts on the screen.
- ___ 4. Wait for a while ... several messages will appear: Build hard disk, reboot, format ...

Note: If you get the following message, 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 you get the following message, ignore it:

- *SYS0318: Message file OSO001.msg cannot be found for message 1467*

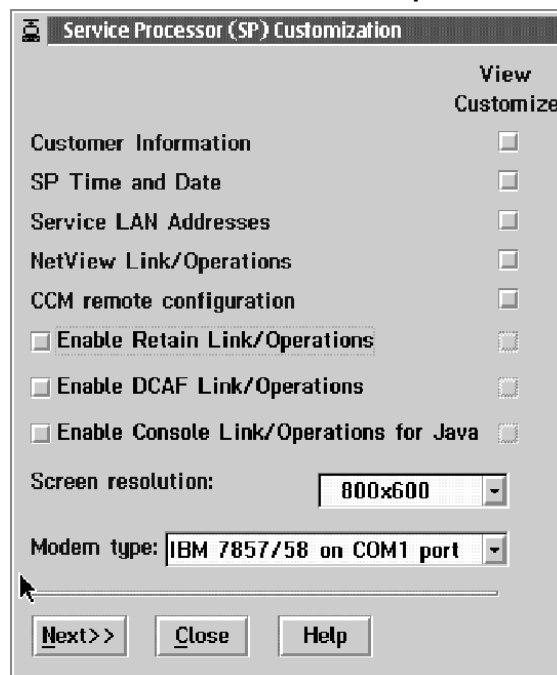
- ___ 5. When prompted, Insert the Configuration Parameters diskette, **PN 02L3427**, in the diskette drive.
- ___ 6. Wait for a while, when prompted insert the Service Processor Installation diskette, **PN 43P1275**, in the diskette drive.
- ___ 7. Message: *Number of bytes....Remaining computed time goes to 00 mn 00s* is displayed but wait and stays on for an extra 5 minutes until message: *LIC Restoration has successfully completed* is displayed. Then, press **Enter** to continue.

Note: If an error occurs, note the displayed message and press **Enter**. Keep the installation diskette available for investigation (log files: EULHIERR.LOG, OUT_BAK.1 and OUT_BAK.2), stored on the diskette and hard disk for PE.

- ___ 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.

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



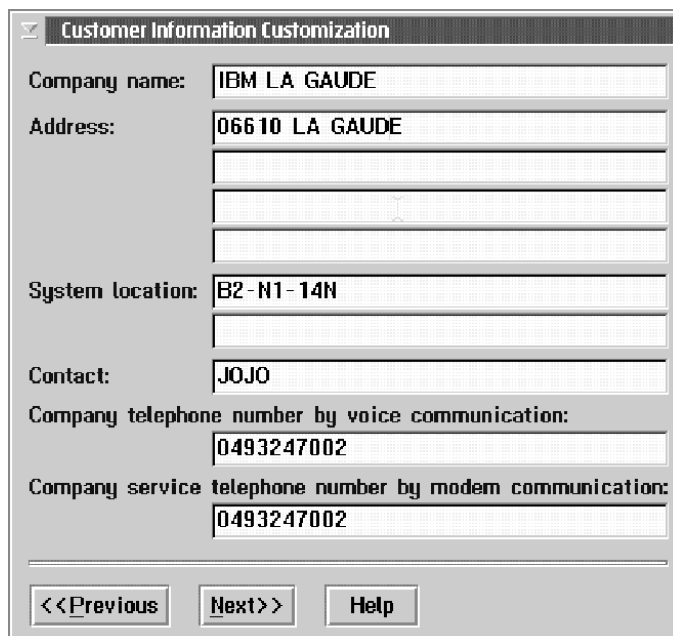
- ___ 10. On the **Service Processor (SP) Customization** window, except for DCAF Link/Operations and Console Link/Operations for Java options that are mutually exclusive and therefore require that you select one or the other option according to the customer requirements, click on every **View Customize** 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.



Customer Information Customization

Company name: IBM LA GAUDE

Address: 06610 LA GAUDE

System location: B2-N1-14N

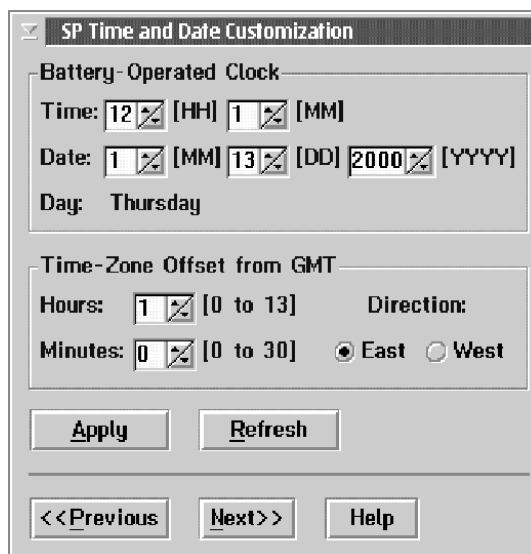
Contact: JOJO

Company telephone number by voice communication: 0493247002

Company service telephone number by modem communication: 0493247002

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



SP Time and Date Customization

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: ☒ East ☐ West

Minutes: 0 [0 to 30]

Apply Refresh

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- ___ 16. Check the information recorded and make the necessary changes. Press **Apply** to take into account 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

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___ 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		
<input type="checkbox"/> Generate alerts	<input type="checkbox"/> Enable Netview RUNCMD	
NetView Links		
Links through?	<input checked="" type="radio"/> SNA <input type="radio"/> APPN	
How many?	<input type="radio"/> 1 <input checked="" type="radio"/> 2	
Link type?	<input checked="" type="radio"/> LAN <input type="radio"/> 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?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Switched SDLC Link Telephone Number		
0493247002		
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___ 20. Check the configuration settings and keep record of the **Generate alerts** option.

- If the **Generate alerts** option is selected, disable this option. Use Table 1 on page 33 to keep record of the customer configuration. Then return here and go to the next step.
- Otherwise, go to the next step.

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.

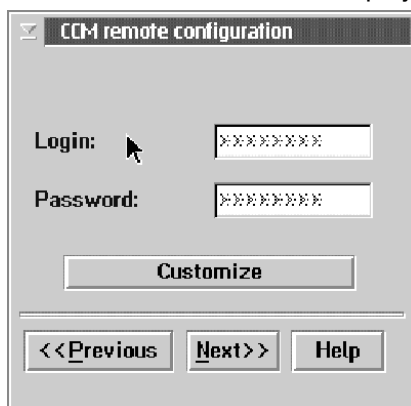
___ 21. Do not change any information. Click on **Next>>** button to display the **Token-Ring 3270 Session Customization** window.



The screenshot shows the 'Token-Ring 3270 Session Customization' window. It contains the following fields and controls:

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

___ 22. Click on **Next>>** button. to display the **CCM remote configuration**.

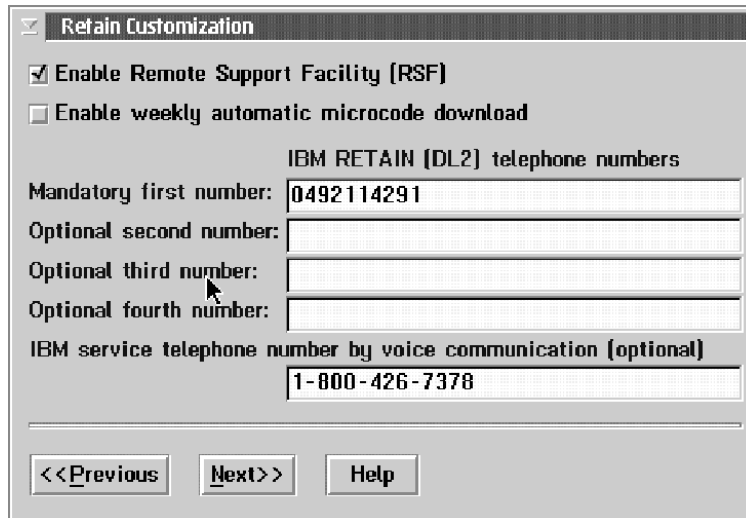


The screenshot shows the 'CCM remote configuration' window. It contains the following fields and controls:

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

___ 23. Check the information recorded and make the necessary changes.

___ 24. 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: 0492114291

Optional second number:

Optional third number:

Optional fourth number:

IBM service telephone number by voice communication (optional)

1-800-426-7378

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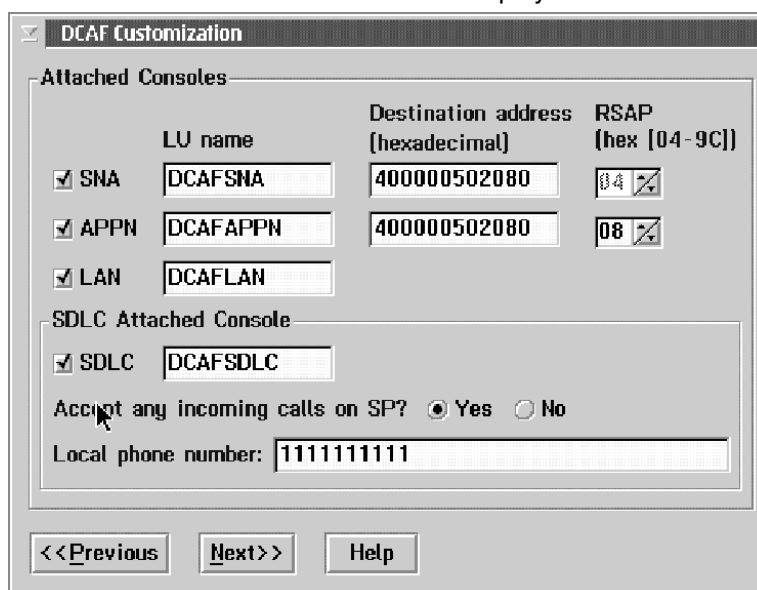
___ 25. Check the configuration settings and keep record of the **Enable Support Facility (RSF)** option.

- If the **Enable Support Facility (RSF)** option is selected, disable this option. Use Table 1 on page 33 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 11, 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 16.

___ 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 DCAFS DLC

Accept any incoming calls on SP? ☒ Yes ☐ No

Local phone number: 1111111111

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Check the information recorded and make the necessary changes. Go to step 30 on page 17.

- ___ 28. The **Point-to-Point Protocol Configuration** window is displayed:

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.

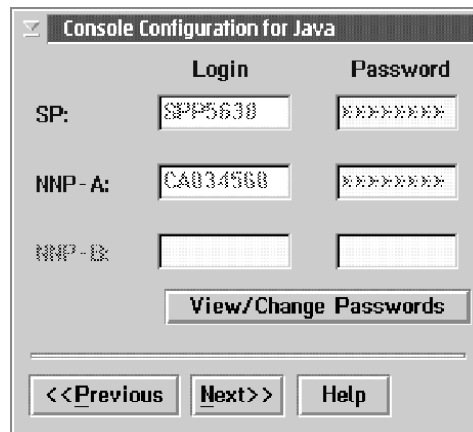
- Select the correct **DTE speed** which must be set according to the type of the modem installed. Use the online help for more information.

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*.

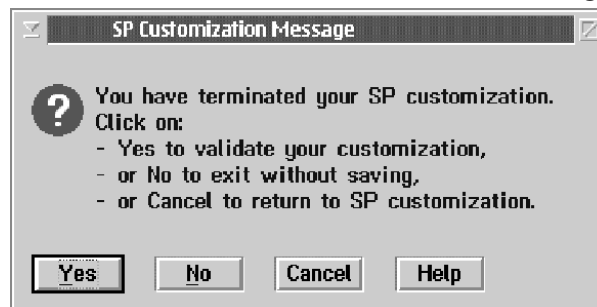
After entering the management password, passwords that were hidden with asterisks, are shown and can be modified in both the **Point-to-Point Protocol Configuration** and **Console for Java Configuration** windows, until you exit the function.

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



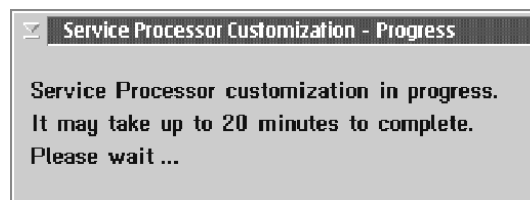
The 'Console Configuration for Java' window has a title bar with a close button. It contains two columns: 'Login' and 'Password'. Under 'Login', there are three labels: 'SP:', 'NMP-A:', and 'NMP-B:'. The 'SP:' field contains 'SP5630', 'NMP-A:' contains 'C4034560', and 'NMP-B:' is empty. The 'Password' column has three corresponding fields, all containing '*****'. Below these fields is a 'View/Change Passwords' button. At the bottom are three buttons: '<<Previous', 'Next>>', and 'Help'.

- ___ 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:



The 'SP Customization Message' window has a title bar with a close button. It features a question mark icon and the text: 'You have terminated your SP customization. Click on:'. Below this are three bullet points: '- Yes to validate your customization,', '- or No to exit without saving,', and '- or Cancel to return to SP customization.'. At the bottom are four buttons: 'Yes', 'No', 'Cancel', and 'Help'.

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



The 'Service Processor Customization - Progress' window has a title bar with a close button. It contains the text: 'Service Processor customization in progress. It may take up to 20 minutes to complete. Please wait ...'.

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



The 'Service Processor Customization Completion' window has a title bar with a close button. It features an information icon and the text: 'Service Processor Customization successfully completed.'. At the bottom is an 'OK' button.

- ___ 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 9.1.11, "Upgrading the NNP(s) on 3746-9x0."
 - **No**, go to 9.2.1, "Applying the Latest MCFs Received." on page 28.

9.1.11 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 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. 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, 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 9.2.1, "Applying the Latest MCFs Received." on page 28.

- **Yes**, check whether you have to migrate the MAE installed from **FC 3000** to **FC 3001**?
 - **No**, go to 9.1.13, "Installing the MAE."
 - **Yes**, go to 9.1.12, "Migrating the MAE."

9.1.12 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 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 9.1.13, "Installing the MAE."

9.1.13 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**.

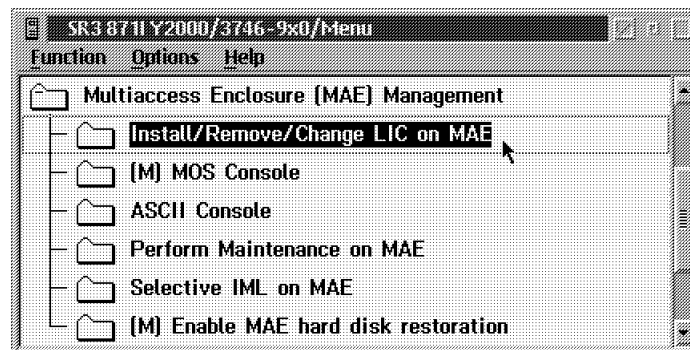


Figure 1. Install Multiaccess Enclosure

___ 4. Check the MAE installation status:

- If **Installed**, click on **Change LIC on MAE...**, then go to Step 8 on page 21.
- Otherwise, click on **Install MAE...**, then go to Step 5.

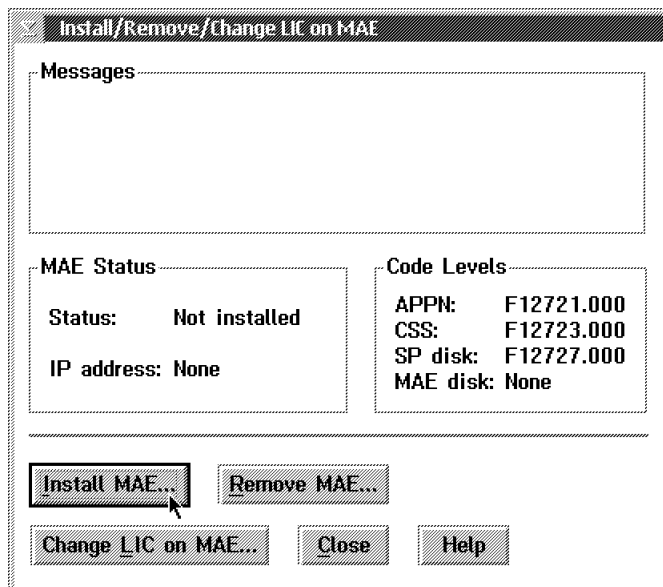


Figure 2. Install Multiaccess Enclosure

___ 5. Verify or enter the **MAE IP address**, then click on **OK**.

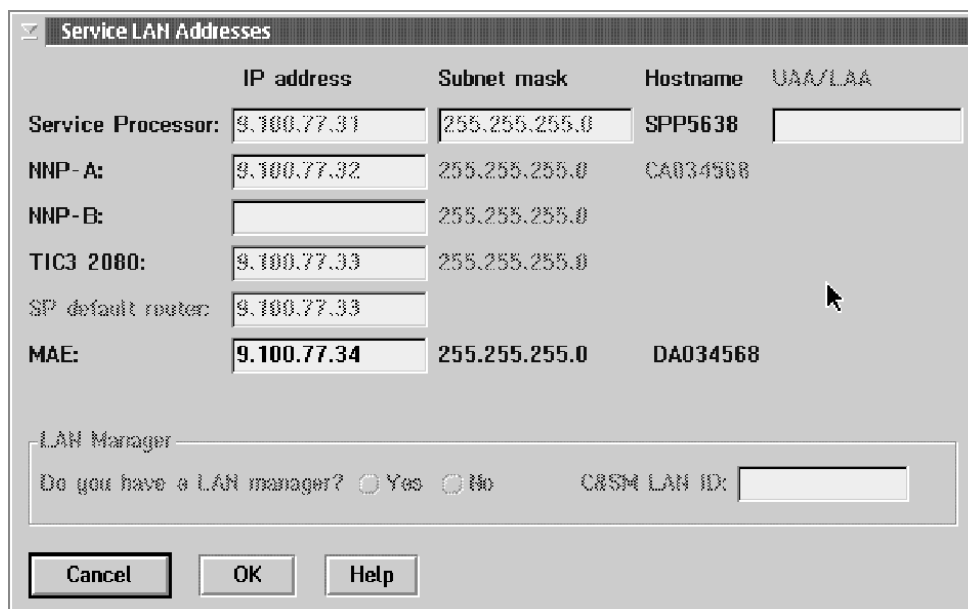


Figure 3. Service LAN Addresses

- ___ 6. Click on **Yes** to record your parameters.

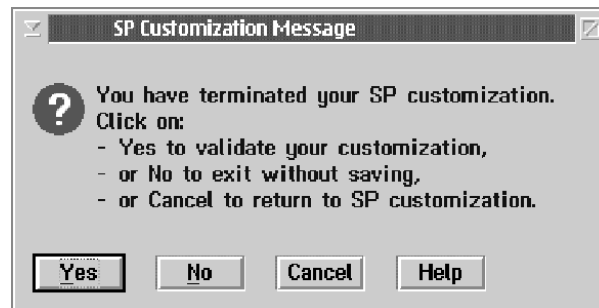


Figure 4. SP Customization Message

- ___ 7. When completed, click on **OK**.

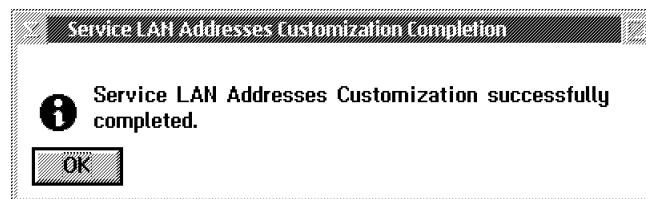
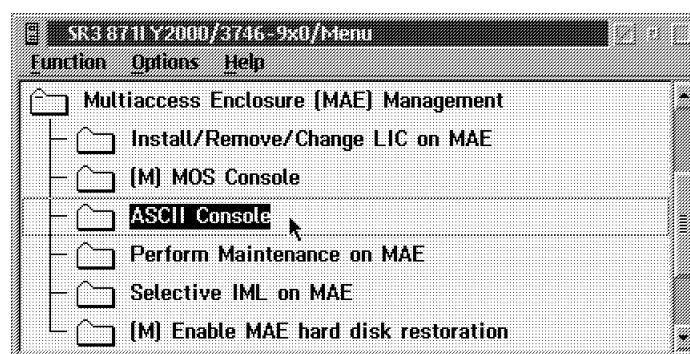


Figure 5. SP Customization Completed

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

9.2 Installing the Firmware

- ___ 1. Double click on **ASCII Console**".



- ___ 2. Press the **Reset** button on the MAE.
- ___ 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. Enter the Multiaccess Enclosure supervisory password when required:
2216.
- 6. On the **System Management Services** window, select **option 4 - Utilities**, press **Enter**.

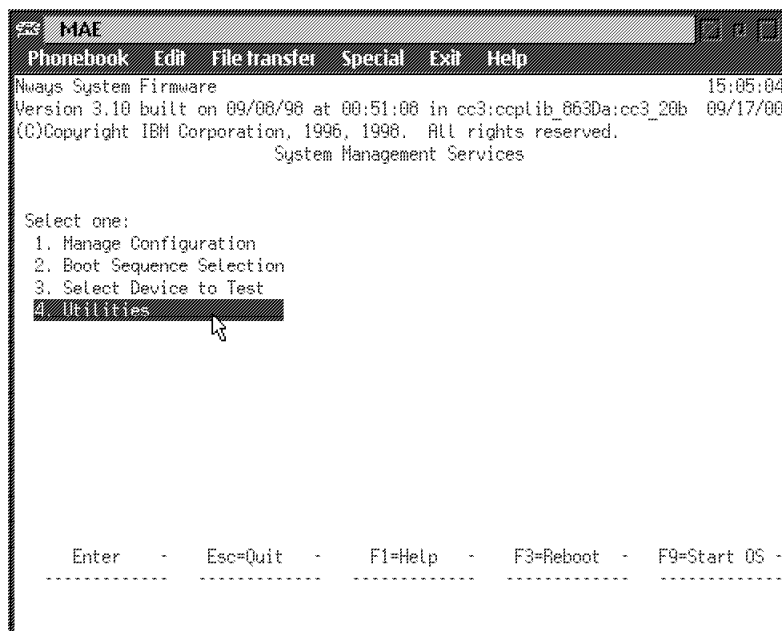


Figure 6. MAE

- 7. Select **7. Update System Firmware** from the utilities panel, press **Enter**

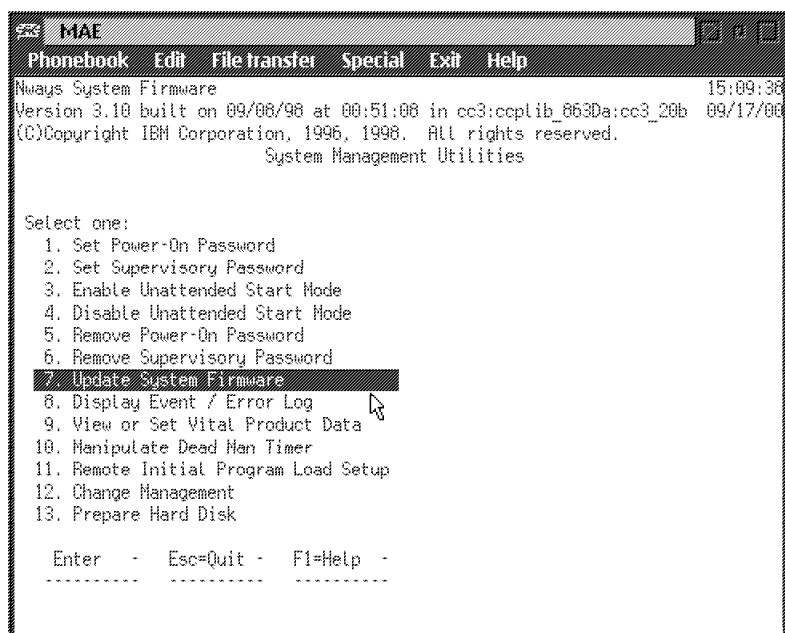
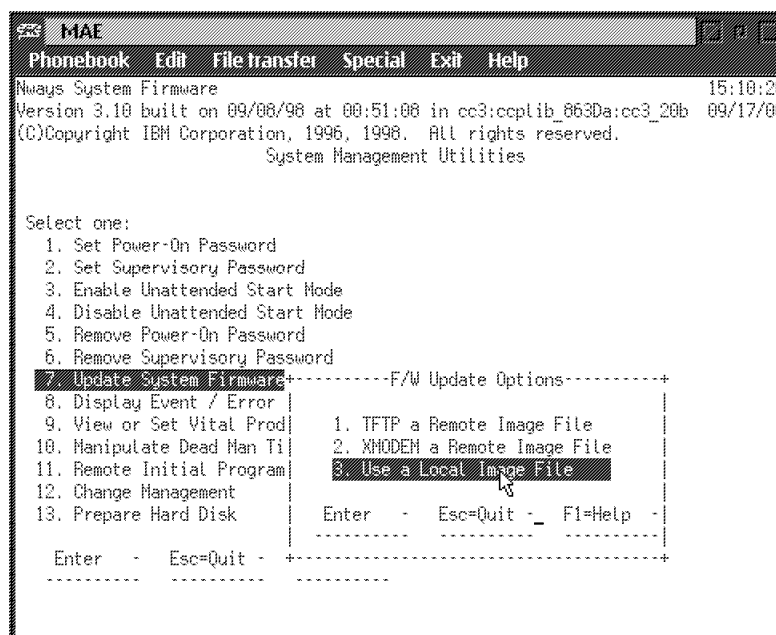


Figure 7. MAE

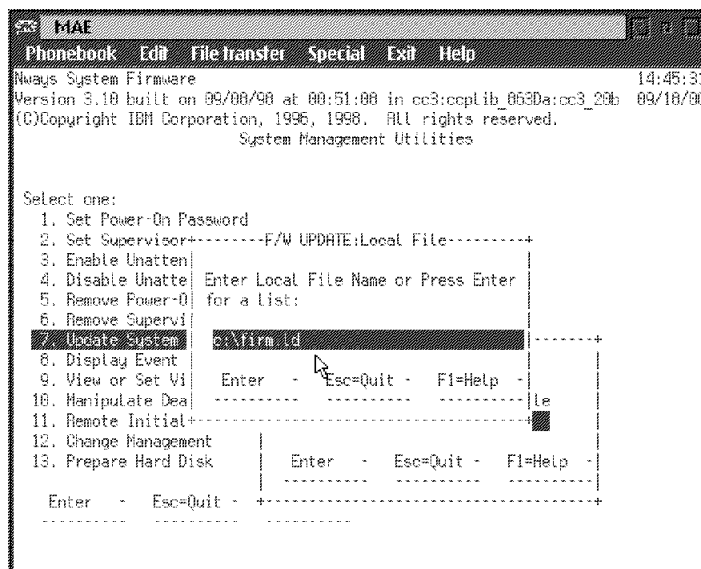
Attention: Do not power off the multiaccess enclosure during the process of updating the firmware. If the update fails, the multiaccess enclosure will boot a backup firmware image. If this happens, repeat the update procedure to reload the onboard firmware image.

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

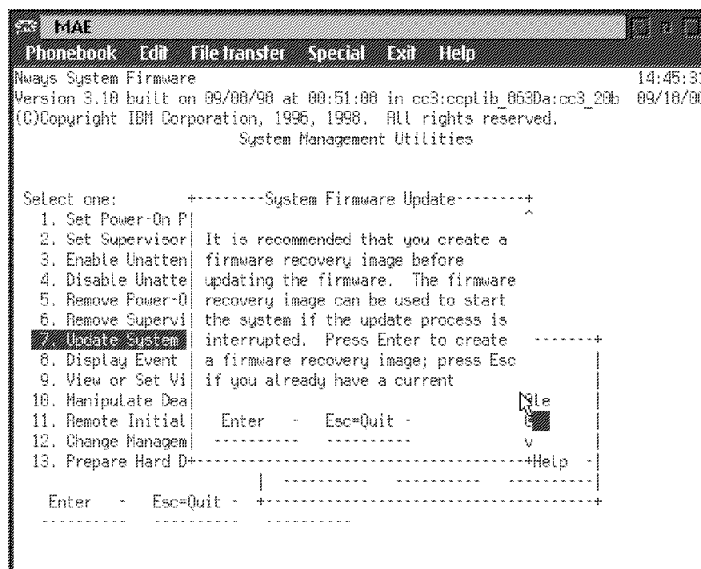


9. Enter the **Local File Name: c:\firm.ld**, then press **Enter**

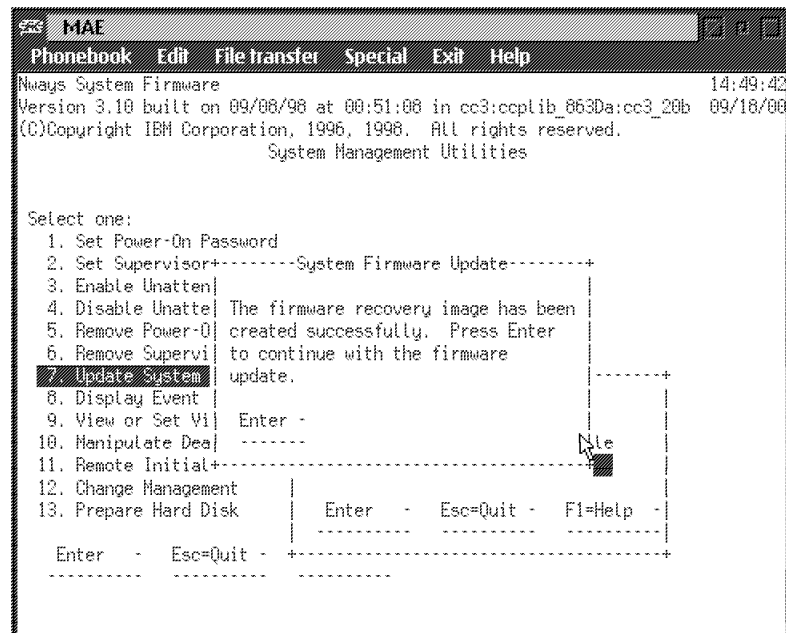
Note: If the firmware loaded on the MAE system card is at the same level as the firmware loaded on the SP hard drive, you will get the following message: "The firmware update file is at the same level as the system firmware. Firmware update cancelled. Press enter". Then go to 9.2.1, "Applying the Latest MCFs Received." on page 28, otherwise continue with the next step.



___ 10. When this window is displayed, press **Enter**.

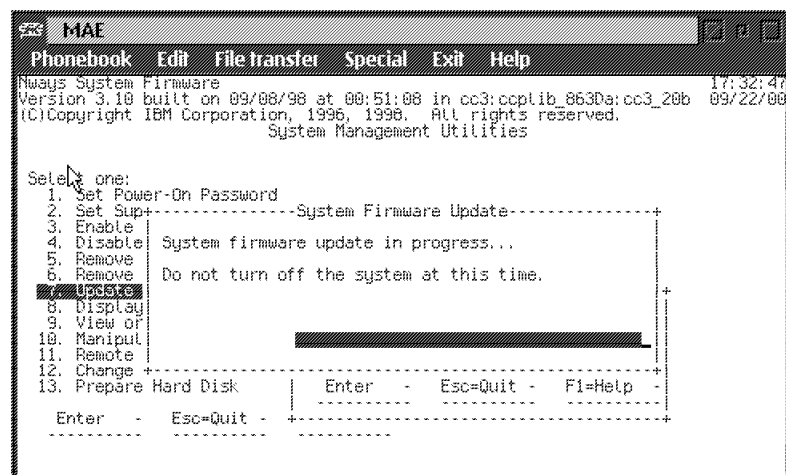


___ 11. When recovery image has been done, press **Enter**.



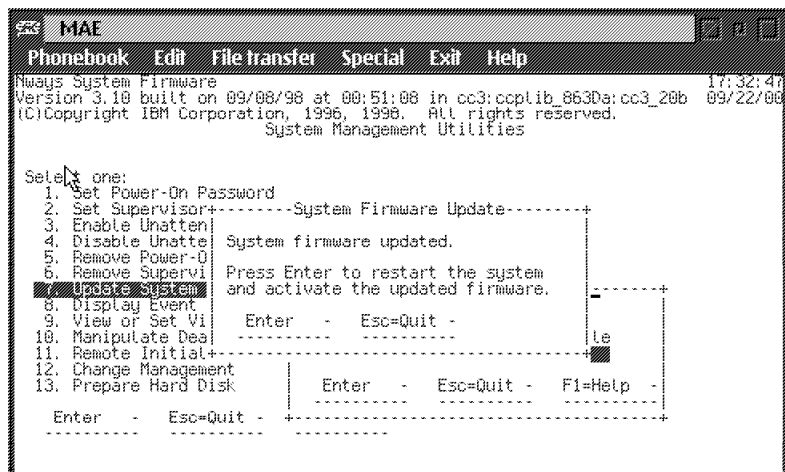
___ 12. On confirmation window, press **Y**. Then when this window is displayed, press **Enter**.

___ 13. Several windows are displayed following by:



Note: 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 need to reload the firmware from the recovery image.

- ___ 14. A completed message appears when the firmware is updated.



- ___ 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**.

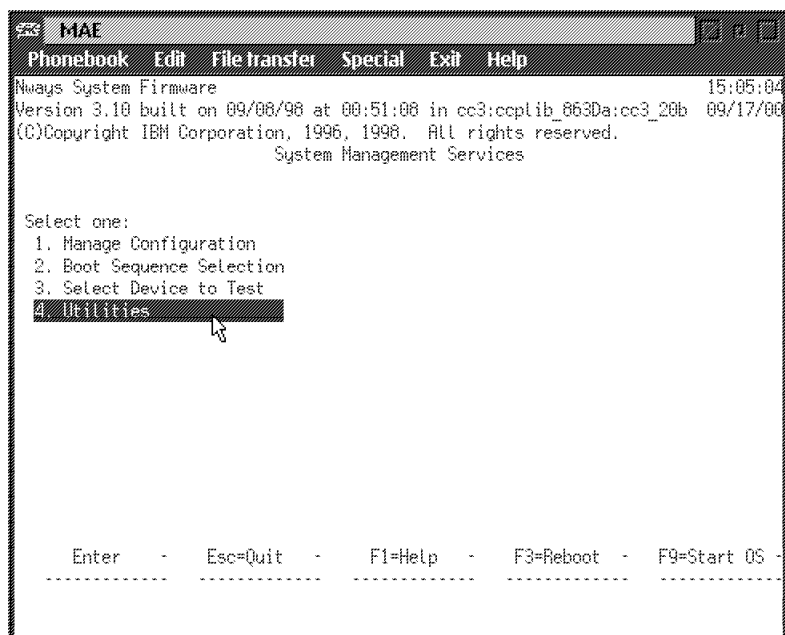


Figure 8. MAE

- ___ 18. Press the **Space bar** to get the console.
- ___ 19. Then close the ASCII window and go to 9.2.1, "Applying the Latest MCFs Received." on page 28.

- ___ 20. Check the IP addressing by selecting **(11) Remote Initial Program Load Setup** and pressing **Enter**.
- ___ 21. Select **(1) IP Parameters** and press **Enter**.

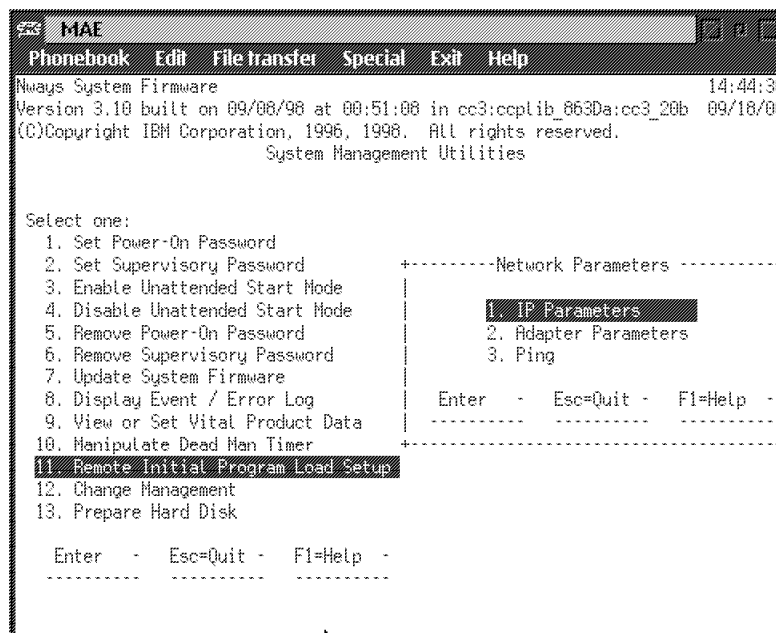
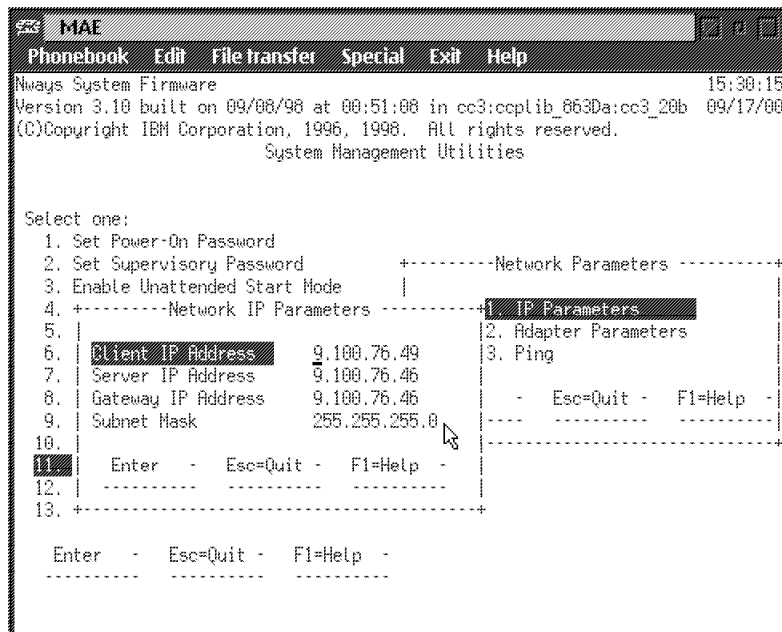


Figure 9. MAE

- ___ 22. Check that the following IP addresses and mask are the same as the ones defined in step 5 on page 20:
- 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.



- ___ 23. Press **Esc** three times.
- ___ 24. Then close the ASCII window and go to 9.2.1, "Applying the Latest MCFs Received.."

9.2.1 Applying the Latest MCFs Received.

Important

Did you receive from your Support Center any MCFs to be installed on the new LIC?

No Go to 9.3, "Procedure 2 - 3746-9x0 Code Level Upgrade." on page 29.

YES Apply the MCFs received according to procedure '**Handling the Micro-code Fixes on the Licensed Internal Code**' listed in the SPIM or Service User's Guide shipped with your SP.

End of Procedure 1, Go to 9.3, "Procedure 2 - 3746-9x0 Code Level Upgrade." on page 29.

9.3 Procedure 2 - 3746-9x0 Code Level Upgrade.

Important

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

9.3.1 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.

9.3.2 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.

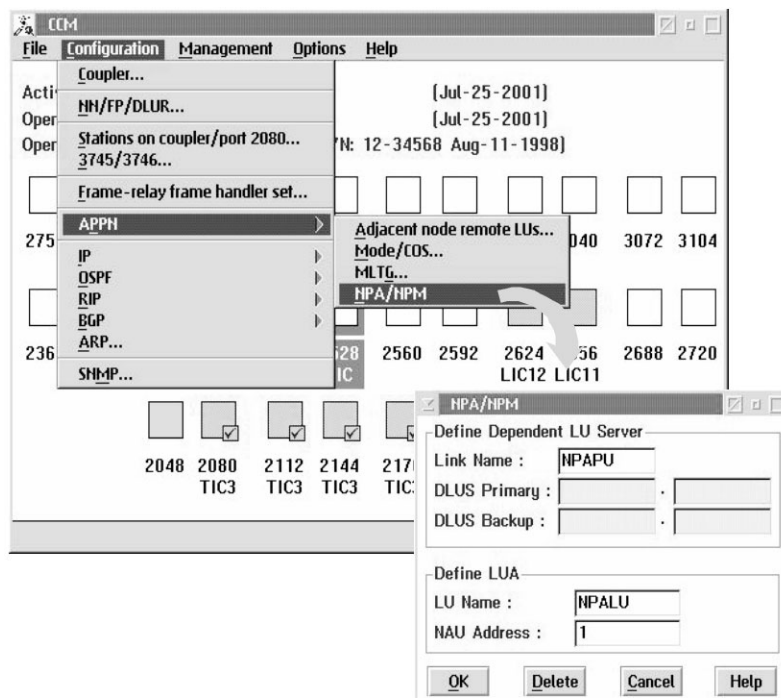
- ___ 1. On the **MOSS-E View** screen, double click on the **3746-9x0** icon.
- ___ 2. On the **3746-9x0 Menu** screen, click on **Operation Management**.
- ___ 3. Double click on **Perform a General IML**; then click on the **Yes** button
- ___ 4. On the **Perform a General IML** window, click on **NO**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

9.3.3 Configuring NetView Performance Monitor (NPM)

- ___ 1. Is there an NNP installed?
 - **Yes** - Continue with the next step.
 - **No** - Go to 9.4, "Recording the Customer Configuration Settings" on page 33.
- ___ 2. Do you intend to use NPM?
 - **Yes** - Continue with the next step.
 - **No** - Go to 9.3.4, "Migrating the Active Configuration using CCM" on page 30.
- ___ 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.

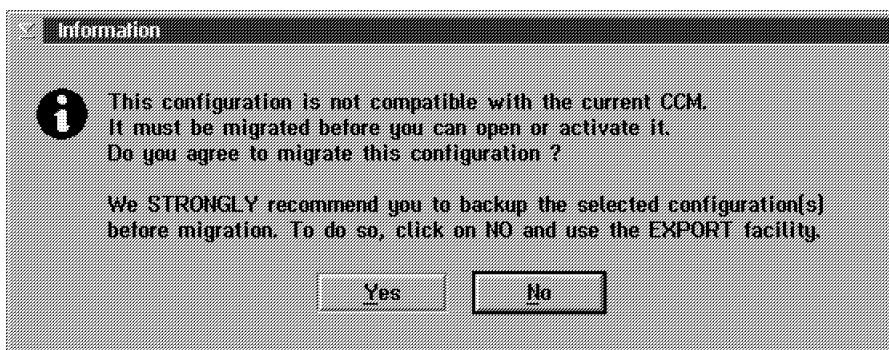


9.3.4 Migrating the Active Configuration using CCM

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 9.3.5, "Activating the Migrated Configuration" on page 32.
 - Otherwise, the configuration is not compatible with the current CCM, then the following information window is displayed. Continue with the next step.



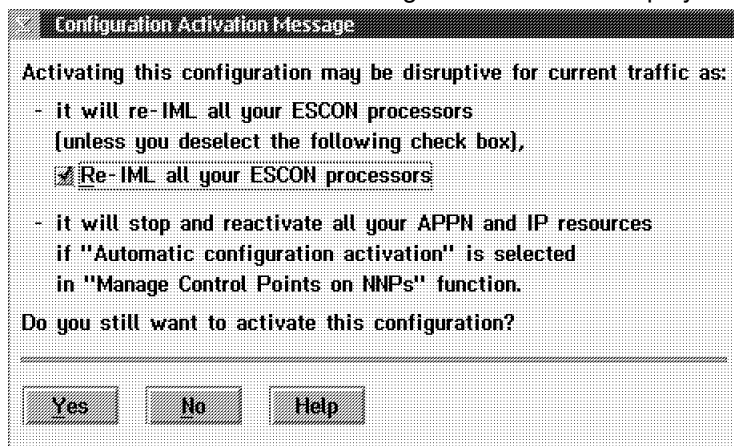
5. Press **Yes** to migrate the configuration. It is not necessary to save the configuration before migrating it, because it has been already saved on the configuration parameter diskette. When the configuration has been successfully migrated, the following window is displayed:



- ___ 6. Press **OK**.
- ___ 7. Close the opened configuration by selecting **File** → **Close opened configuration**.
- ___ 8. You can now activate the migrated configuration. Go 9.3.5, "Activating the Migrated Configuration."

9.3.5 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 9.3, "Procedure 2 - 3746-9x0 Code Level Upgrade." on page 29.
- **No**, then go to 9.5, "Returning the Machine to Customer" on page 33.

9.4 Recording the Customer Configuration Settings

When performing the service processor customization during the LIC Installation (see step 10 in 9.1.10, "LIC Installation" on page 10), 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		

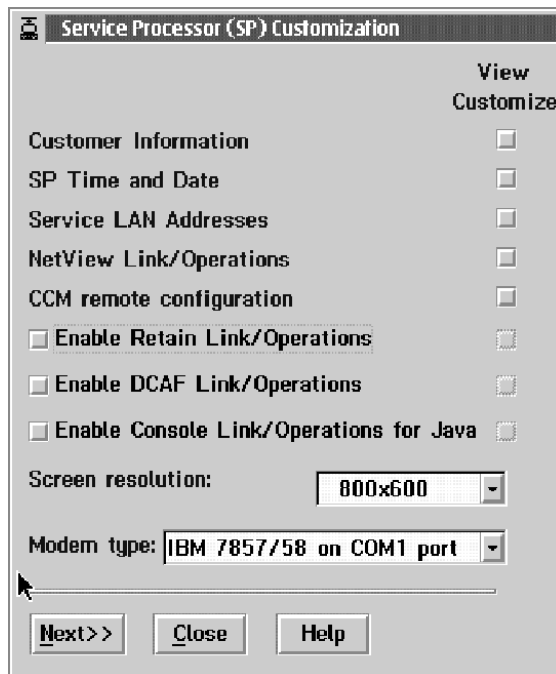
9.5 Returning the Machine to Customer

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 the 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.

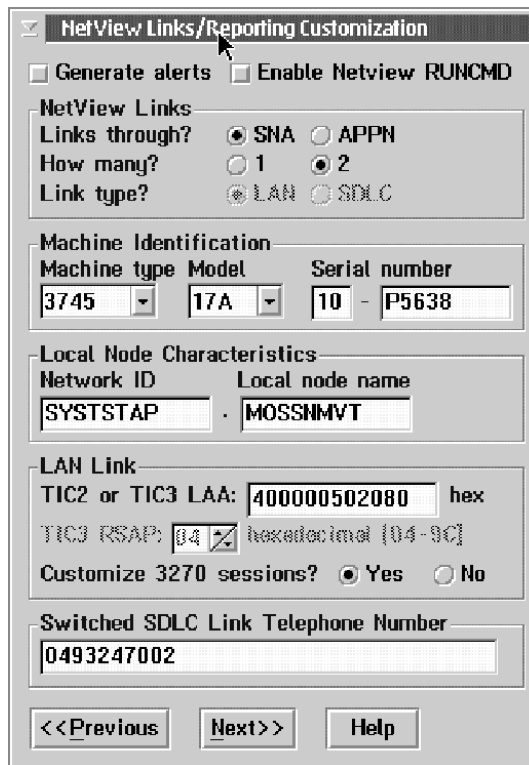
If you have changed one of these options or both, then go 9.5.1, "Re-configuring Service Processor Customization Options." Otherwise, continue with 9.5.2, "Adapter Code Loading per Processor Type." on page 36.

9.5.1 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 the 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 35.
- ___ 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)

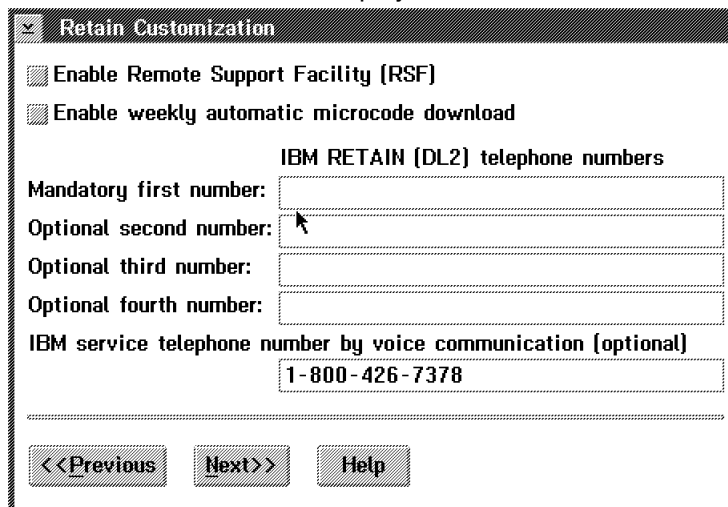
Customize 3270 sessions? ☒ Yes ☐ No

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: _____

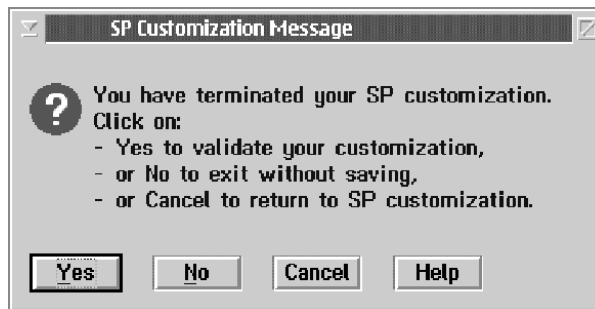
IBM service telephone number by voice communication (optional)

1-800-426-7378

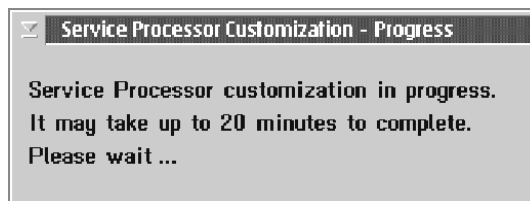
<<Previous Next>> Help

- ___ 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 9.5.2, "Adapter Code Loading per Processor Type.."

9.5.2 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 do not want to specify this information, go to 9.5.5, "Logging OFF from Service Processor." on page 39 (All protocols will be loaded in all type 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"**.

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

Buttons: Add... Save... Remove... Clean... Change... Repair... Select Feature (cursor) Cancel Help

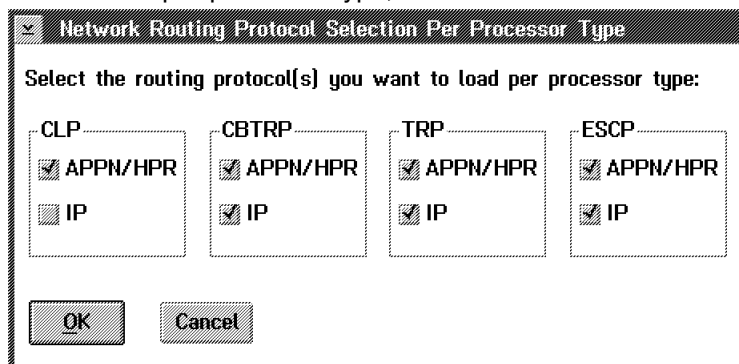
Status: 3746 M.E.S. 900 -> 950

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

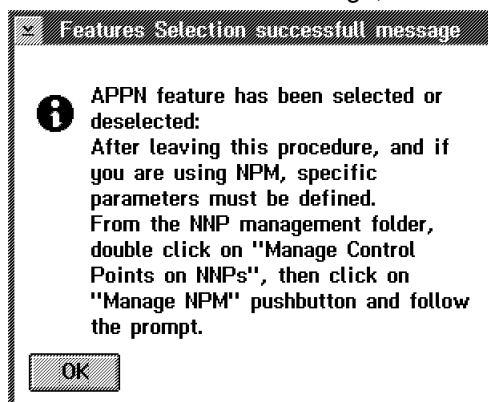
Features	Password	Extended Functions	Password
<input checked="" type="checkbox"/> APPN/HPR	no password	<input type="checkbox"/> 3746 (FC.5800)	
<input checked="" type="checkbox"/> IP	XXXXXXXXXX	<input type="checkbox"/> MAE (FC.5804)	
<input type="checkbox"/> X.25		<input type="checkbox"/> TN3270E Server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

Buttons: 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 9.5.5, "Logging OFF from Service Processor." on page 39.

9.5.3 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.

9.5.4 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** 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**.

9.5.5 Logging OFF from Service Processor.

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

10.0 Test Procedures

Not applicable.

11.0 Field Updating

None.

3745 FFBM	PN 43P1333 39 of 40	EC H60001 17 OCT 2001	EC H10030A 9 FEB 2002	EC H10030D 20 JUN 2003		
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After Installation (Steps 12-14)

12.0 Publications Update

None.

13.0 Parts Disposition

All removed parts become the property of IBM. You **MUST RETURN** these parts according to the following instructions.

- **For Parts Listed in the RMER**

The following parts must be returned to the address given on the Returned Material Equipment Report (RMER) form.

Part Returned	Quantity
Control Unit	1

- **For Parts Not Listed in the RMER**

All these parts should be returned according to you local procedure.

Part Returned	Quantity
Display	1
External modem (if present)	1
External CD-ROM (if present)	1
External optical disk drive (if present)	1

14.0 Machine Records

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

End of instructions.