1

Field Feature Bill of Material (FFBM)

INSTALLATION of MICROCODE Level F12380

On 3746-9x0 attached to 3745-XXA
or
on 3746-950 alone.

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1

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	2 of 30	05 DEC 97	28 JAN 98			

2

Before Installation (Steps 1-8)

> **WARNING to CE:**
>
> • Customer Console(s): DCAF level should be 1.3 + CSD UB20924.

> **Very Important**
>
> The **Manage ESCON Processors** function is now only used to:
>
> 1. Display the **ESCON lines** status.
>
> 2. Display the **ESCON stations** status.
>
> 3. Manage the **ESCON couplers** status.
>
> If you need to modify your **ESCON processor configuration**, use the new function **Configure ESCON Processors**, see details in 16.0, "Appendix A. ESCON Configuration." on page 28.

1.0 Machines Affected

3745 Models XXA or 3746 Models 9X0

- With Service Processor Type 9585 (FC 5021), 3172 (FC 5021) or 7585-P02 (FC 5052).

- Without Microcode Level F12380.

  Checkpoint: Check that the CSS 1 EC level is F12383.000.

  If level is not present you must upgrade the Service Processor and the 3746-9x0 according to this instruction.

Note: Refer to **Chapter 3, Displaying the EC Level of Code** in the *Service Processor Installation and Maintenance (Based on 7585, 3172, and 9585)*, SY33-2120

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

SP Type	Feature/BM
3172	64MB Memory Expansion (FC 5028) BM 08J5223.
7585-P02	None.
9585	2GB Hard Disk Drive (FC 5026) BM 29H4179, and 64MB Memory Expansion (FC 5028) BM 08J5340.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	3 of 30	05 DEC 97	28 JAN 98			

3

2.2 Co-requisite

(Must be installed together)

SP Type	Feature/BM
3172	Service Processor Upgrade Drive (FC 5051) BM 08J5516.
7585-P02	None.
9585	Service Processor Upgrade Drive (FC 5051) BM 08J5516.

2.3 Companion

(May be installed together)

None.

3.0 BMs to be Installed

FFBM	Title
02L1257	Installation of Microcode level F12380 on 3746-9x0 attached to 3745-XXA, and/or an 3746-950 stand-alone.

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.

- Call your Support Center to obtain the Microcode Fixe(s) (MCF) to be installed with the new LIC.

- Obtain the maintenance password from the Customer.

- Ensure that both the 3745 and 3746-9x0, types and models, are registered in RETAIN (CCPF).

  For U.S.A machines, please call the Raleigh Multiplexor Support Center and verify your machine's registration in CCPF for:

  − The seven digit serial number of the 3745 and 3746-9x0 are correct.
  − The three digit model designation for the 3745 and 3746-9x0 are correct.

5.0 Programming

None.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	4 of 30	05 DEC 97	28 JAN 98			

6.0 Purpose and Description

Install the new level microcode level F12380.

- On the Service Processor, and
- Install on the 3746-9x0(s).

7.0 Installation Time

The installation time depends on the number of 3746-9x0 connected to the same Service Processor (Maximum 2). In the case of multiple 3746-9x0 connected to a Service Processor, global maintenance window must be requested to the customer. This will allow the customer to upgrade the 3746-900, and/or the 3746-950.

This global maintenance will be divided in up to 3 sub windows, one corresponding to each phase of the upgrade:

- Phase 1 is not disruptive to network traffic, and is used to upgrade the Service Processor and the NNP (if any).

- Phases 2 and 3, are used to update each 3746-9x0 machine attached to the Service Processor.

  These phases are disruptive, but may be performed serially to avoid disrupting all machines at the same time.

- Nondisruptive operation estimated time: 3746-9x0/MOSS-E Code level upgrade on the Service Processor: 35 up-to 60 minutes for LIC install + 35 to 45 minutes per NNP + 18 minutes to apply the latest MCFs.

- Disruptive operation estimated times per 3746-9x0:

  - 3746-9x0 General IML: 6 minutes.

  - 3746-9x0 EEPROM Upgrade: 6 minutes.

To be reported as MES installation.

FFB/M Installed	Machine Hrs	System Hrs	CE Hour	Nbr of CE
02L1257	1 to 2	0.0	3	1

8.0 Tools/Materials Required

None.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	5 of 30	05 DEC 97	28 JAN 98			

Installation (Steps 9-12)

9.0 Safety

Not applicable.

10.0 Details of Installation

The largest configuration will be upgraded in 3 phases:

Phase 1: 3746-9x0/MOSS-E code level upgrade on the Service Processor as described in 10.1, "Procedure 1 - 3746-9x0/MOSS-E Code Level Upgrade.."

Phase 2: Code level upgrade on the first 3746-9x0, as described in 10.3, "Procedure 2 - 3746-9x0 Code Level Upgrade.."

Phase 3: Code level upgrade on the second 3746-9x0 (if any), as described in 10.3, "Procedure 2 - 3746-9x0 Code Level Upgrade.."
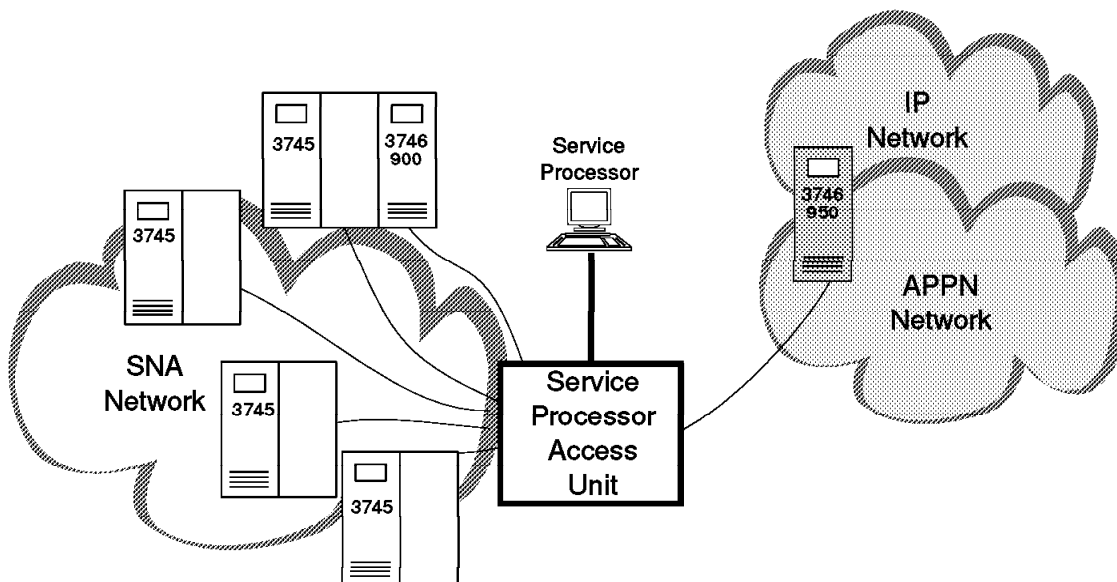

Figure 1. Service Processor Maximum Configuration.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	6 of 30	05 DEC 97	28 JAN 98			

6

10.1 Procedure 1 - 3746-9x0/MOSS-E Code Level Upgrade.

10.1.1 Saving the Service Processor Hard Disk on the Optical Disk.

Shut-down and Power OFF the Service Processor:

___ 1. If the Service Processor is **operational**, use the following procedure:

    ___ a. On the MOSS-E view window click on **Program**

    ___ b. Click on **Shut down**, then enter the Service Processor maintenance password (default is IBM3745) and click on **OK**.
You are now able to power OFF the Service Processor.

___ 2. Power **OFF** the Service Processor.

___ 3. Install the **Service Processor installation diskette 1 of the installed LIC** in the diskette drive.

___ 4. Power **ON** the Service Processor.

Backup the HDD on the Optical Disk:

___ 5. Install the **backup** optical disk in the optical drive.

___ 6. On the first screen displayed, press **Enter**

___ 7. From the primary window select option **Save hard disk** and follow the prompts.

    Note: Wait for the message: ′Operation successfully completed′.

___ 8. At the end, select **Exit** from the primary window and follow the prompts:

- On prompt, remove the diskette from the drive,
- Remove the **backup** optical disk from the optical drive.
- Secure them for further use.

10.1.2 Installing MES Data Save Function.

___ 1. Insert the **Customer Data Migration diskette** (PN 02L3850) in the Service Processor diskette drive.

___ 2. Enter the Service Processor maintenance password (default is IBM3745).

___ 3. Double click on the ″**Service Processor object icon**″.

___ 4. Click on ″**Change Management**″.

___ 5. Double click on ″**Manage Microcode Fixes**″

___ 6. On **Manage Microcode Fixes** window, click on ″**View**″ (On function bar). Then, click on ″**Change directory path**″ (On pull down menu)

___ 7. On **Change Directory Path** window, enter **A:*.***. Then, click on ″**OK**″.

___ 8. On **Manage Microcode Fixes** window, click on the **fixes** to be applied.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	7 of 30	05 DEC 97	28 JAN 98			

___ 9. Click on ″**File**″ (On the function bar). Then, click on ″**Move**″ (On pull
down menu).

___ 10. On the list displayed, according to the following table, click on the **MCF**
to be applied:

LIC Level	Apply MCF
D2251X	MD22426.418
D2256X	MD22726.418
D4612X	MD22526.418
D4613X	MD22326.418

___ 11. 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
```

___ 12. On the **Change Directory Path** window, enter **J:MCFALL**. 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
```
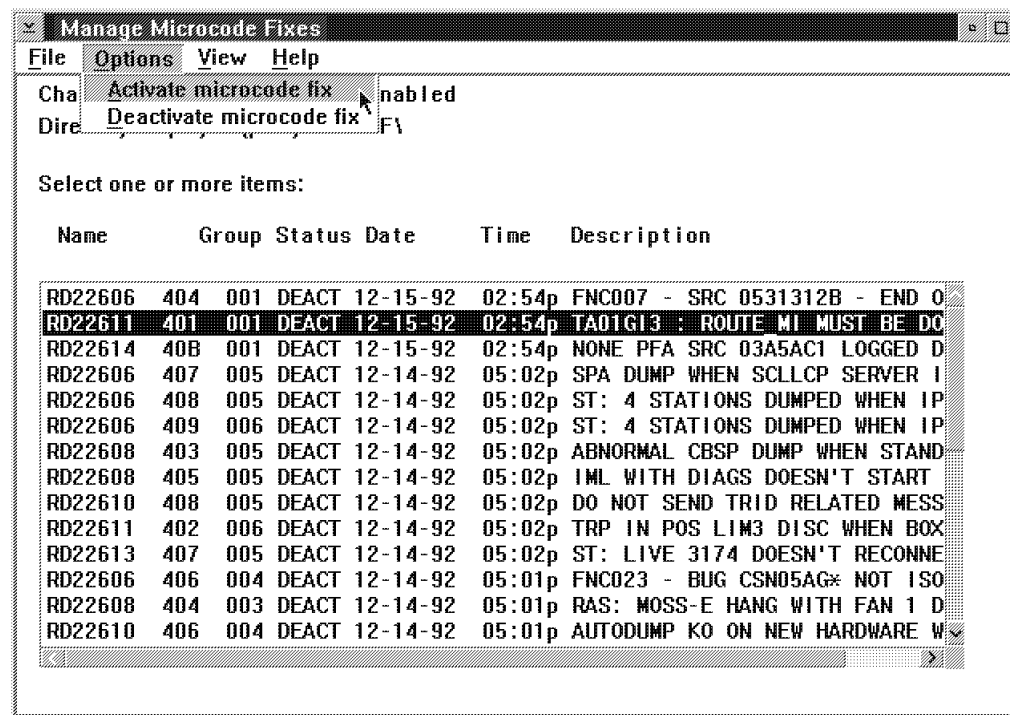
___ 13. Remove the diskette disk from the drive.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	8 of 30	05 DEC 97	28 JAN 98			

8

___ 14. 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).

```
┌──────────────────────────────────────────────────────────────────────┐
│ ≈  Manage Microcode Fixes                                        ▫ □   │
│ File  Options  View  Help                                              │
│ Cha┌──────────────────────────┐nabled                                 │
│ Dire│ Activate microcode fix  ▸│F\                                     │
│     │ Deactivate microcode fix │                                       │
│     └──────────────────────────┘                                      │
│ Select one or more items:                                             │
│                                                                        │
│   Name      Group Status Date      Time    Description                 │
│                                                                        │
│  RD22606    404  001  DEACT 12-15-92  02:54p  FNC007 - SRC 0531312B - END O│
│  RD22611    401  001  DEACT 12-15-92  02:54p  TA01GI3 : ROUTE MI MUST BE DC│
│  RD22614    40B  001  DEACT 12-15-92  02:54p  NONE PFA SRC 03A5AC1 LOGGED D│
│  RD22606    407  005  DEACT 12-14-92  05:02p  SPA DUMP WHEN SCLLCP SERVER I│
│  RD22606    408  005  DEACT 12-14-92  05:02p  ST: 4 STATIONS DUMPED WHEN IP│
│  RD22606    409  006  DEACT 12-14-92  05:02p  ST: 4 STATIONS DUMPED WHEN IP│
│  RD22608    403  005  DEACT 12-14-92  05:02p  ABNORMAL CBSP DUMP WHEN STAND│
│  RD22608    405  005  DEACT 12-14-92  05:02p  IML WITH DIAGS DOESN'T START │
│  RD22610    408  005  DEACT 12-14-92  05:02p  DO NOT SEND TRID RELATED MESS│
│  RD22611    402  006  DEACT 12-14-92  05:02p  TRP IN POS LIM3 DISC WHEN BOX│
│  RD22613    407  005  DEACT 12-14-92  05:02p  ST: LIVE 3174 DOESN'T RECONNE│
│  RD22606    406  004  DEACT 12-14-92  05:01p  FNC023 - BUG CSN05AG* NOT ISO│
│  RD22608    404  003  DEACT 12-14-92  05:01p  RAS: MOSS-E HANG WITH FAN 1 D│
│  RD22610    406  004  DEACT 12-14-92  05:01p  AUTODUMP KO ON NEW HARDWARE W│
│  ◂                                                               ▸      │
└──────────────────────────────────────────────────────────────────────┘
```

10.1.3 Verifying the MCF status.

___ 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. Click on ″**View**″, click on ″**Change directory path**″

___ 6. Enter the ″**directory path**″: **J:MCFALL**. Then,click on **OK**.

___ 7. The status of the MCF just applied should be ″**ACT**″.

┌─ MCF Status ACT? ─────────────────────────────────────┐
│   │
│ **NO**, Call Support..   │
│   │
│ **YES**, continue with next step.   │
│   │
└──┘

___ 8. Exit the **Change Management** functions,

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	9 of 30	05 DEC 97	28 JAN 98			

9

10.1.4 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 the **backup** optical disk on the ODD.

___ 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) on the diskette drive.

___ 8. Click on ″**OK**″ follow the prompts and wait for completion..

10.1.5 Power OFF the Service Processor

___ 1. On the **MOSS-E View** window, click on **Program**.

___ 2. Double click on **shut-down**, then enter the maintenance password, and click on **OK**.

___ 3. When the pop-up appears saying shut down has completed, power OFF the Service Processor.

Service Processor type?

3172   Install Service Processor Upgrade MES (FC 5051) FFBM 08J5516; then, go to 10.1.7, "LIC Installation" on page 11

7585-P02 Go to 10.1.6, "Removing the Optical Disk Drive (ODD)."

9585   Install Service Processor Upgrade MES (FC 5051) FFBM 02L3496; then, go to 10.1.7, "LIC Installation" on page 11

10.1.6 Removing the Optical Disk Drive (ODD)

___ 1. **On the rear side of the ODD**, turn OFF the power switch (0).

___ 2. Disconnect the ODD Power cord from the ac Outlet Distribution Box or from the wall ac outlet, and the other end from the rear side of the ODD.

___ 3. **On the rear side of the Service Processor**, disconnect the signal cable from SCSI adapter (Position 3).

___ 4. Remove the ODD. Then, pack it into the return box (PN 32H0346) provided with this FFBM

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	10 of 30	05 DEC 97	28 JAN 98			

10

10.1.7 LIC Installation

    1. Insert the **Service Processor installation diskette 1 (PN 02L3536)** in the diskette drive, then

    2. Insert the **Licensed Internal Code CD ROM (PN 02L2730)** in the CD ROM drive.

    3. Power **ON** the Service Processor.

    4. Wait for a while ... several messages will appear: Build hardisk, reboot, format ...

    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 1 (PN 02L3536)** in the diskette drive.

    7. Wait until message Update Licensed Internal Code, Operation Successfully Completed; then, press the **Enter** key..

    8. When prompted remove the diskette from the diskette drive. Then, press **Enter** key.

    9. The system re-boot, wait for a while ...
Click on **OK** button when the message ′**Do you want to customize your SP**′ is displayed.

On the **Service Processor (SP) Customization** screen:

    10. Click on every **View Customize** check boxes.

    11. Click on **Modem type** drop down list, then select (click on) the modem and connection type of the modem used. Then, click on **Next>>** button.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	11 of 30	05 DEC 97	28 JAN 98			
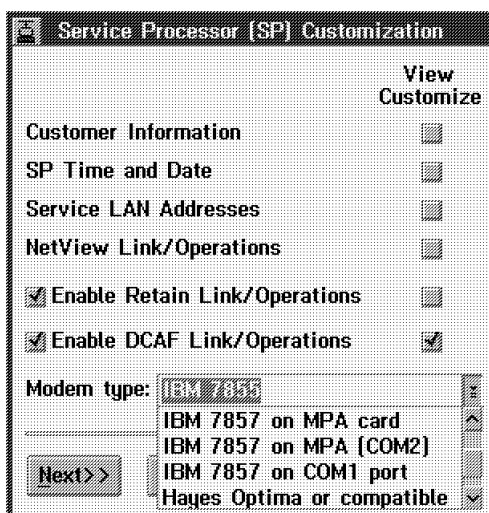
On the **Customer Information Customization** screen:

___ 12. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

```
┌─────────────────────────────────────────────────┐
│ ⊻  Customer Information Customization             │
├─────────────────────────────────────────────────┤
│                                                   │
│  Company name:    [                            ]  │
│                                                   │
│  Address:         [                            ]  │
│                   [                            ]  │
│                   [                            ]  │
│                   [                            ]  │
│                                                   │
│  System location: [                            ]  │
│                   [                            ]  │
│                                                   │
│  Contact:         [                            ]  │
│  Company telephone number by voice communication: │
│                   [                            ]  │
│                                                   │
│  Company service telephone number by modem communication: │
│                   [                            ]  │
│                                                   │
│   [ <<Previous ]   [ Next>> ]   [ Help ]          │
└─────────────────────────────────────────────────┘
```

On the **SP Time and Date Customization** screen:

___ 13. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

```
┌─────────────────────────────────────────────────┐
│ ⊻  SP Time and Date Customization                 │
├─────────────────────────────────────────────────┤
│ ┌─Battery-Operated Clock──────────────────────┐  │
│ │ Time: [9 ⬍] [HH] [6 ⬍] [MM]                  │  │
│ │ Date: [3 ⬍] [MM] [28 ⬍] [DD] [1997 ⬍] [YYYY] │  │
│ │ Day:  Friday                                 │  │
│ └──────────────────────────────────────────────┘  │
│ ┌─Time-Zone Offset from GMT───────────────────┐  │
│ │ Hours:   [0 ⬍] [0 to 13]     Direction:      │  │
│ │ Minutes: [0 ⬍] [0 to 30]     ○ East ◉ West   │  │
│ └──────────────────────────────────────────────┘  │
│   [ Apply ]   [ Refresh ]                         │
│                                                   │
│   [ <<Previous ]   [ Next>> ]   [ Help ]          │
└─────────────────────────────────────────────────┘
```

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	12 of 30	05 DEC 97	28 JAN 98			

12

On the **Service LAN Addresses** screen:

__ 14. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

```
┌────────────────────────────────────────────────────────────────┐
│ ⊠ Service LAN Addresses                                          │
├────────────────────────────────────────────────────────────────┤
│                                                                  │
│                    IP address      Subnet mask    Hostname  UAA/LAA │
│  Service Processor: 9.100.77.61     255.255.255.0  SP11111   400000781111 │
│                                                                  │
│  NNP-A:             9.100.77.62     255.255.255.0  CA134567      │
│                                                                  │
│  NNP-B:             9.100.77.64     255.255.255.0  CB134567      │
│                                                                  │
│  TIC3 2080:         9.100.77.63     255.255.255.0               │
│                                                                  │
│  SP default router:                                              │
│                                                                  │
│  MAE:                                                            │
│  ┌─LAN Manager─────────────────────────────────────────────────┐│
│  │ Do you have a LAN manager?  ○ Yes  ● No    C&SM LAN ID: MOSSE││
│  └─────────────────────────────────────────────────────────────┘│
│                                                                  │
│  [ <<Previous ]   [ Next>> ]   [ Help ]                          │
└────────────────────────────────────────────────────────────────┘
```

On the **Netview Link(s)/Reporting Customization** screen:

__ 15. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

```
┌──────────────────────────────────────────────┐
│ ⊠ NetView Link(s)/Reporting Customization      │
├──────────────────────────────────────────────┤
│ ☑ Generate alerts                              │
│ ┌─NetView Link(s)────────────────────────────┐│
│ │ Link(s) through?   ○ SNA  ● APPN           ││
│ │ How many?          ○ 1    ● 2              ││
│ │ Link type?         ● LAN  ○ SDLC           ││
│ └────────────────────────────────────────────┘│
│ ┌─Machine Identification─────────────────────┐│
│ │ Machine type  Model      Serial number     ││
│ │ [ 3745  ▼]   [ 17A  ▼]   [XX] - [XXXXX]     ││
│ └────────────────────────────────────────────┘│
│ ┌─Local Node Characteristics─────────────────┐│
│ │ Network ID        Local node name          ││
│ │ [ SYSTSTAP ]    ·  [ MOSSNMVT ]            ││
│ └────────────────────────────────────────────┘│
│ ┌─LAN Link───────────────────────────────────┐│
│ │ TIC2 or TIC3 LAA:  [400000502080]  hex     ││
│ │ TIC3 RSAP: [08 ▲▼] hexadecimal [04-9C]     ││
│ │ Customize 3270 sessions?  ● Yes   ○ No     ││
│ └────────────────────────────────────────────┘│
│ ┌─Switched SDLC Link Telephone Number────────┐│
│ │ [ 0143457280 ]                             ││
│ └────────────────────────────────────────────┘│
│                                                │
│  [ <<Previous ]   [ Next>> ]   [ Help ]        │
└──────────────────────────────────────────────┘
```

On the **Token-Ring 3270 Session Customization** screen:

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	13 of 30	05 DEC 97	28 JAN 98			

13

___ 16. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

```
┌──────────────────────────────────────────────┐
│ ⌄  Token-Ring 3270 Session Customization       │
├──────────────────────────────────────────────┤
│                                                │
│  Host code page:        297  France      ⌄     │
│                                                │
│  LU local/NAU address:  3   ⬍  numerical [1-255]│
│                                                │
│  Long session/LU name:  B                      │
│                                                │
│  Number of sessions:    1  ⬍ numerical [1-4]   │
│  ─────────────────────────────────────────    │
│                                                │
│   <<Previous    Next>>     Help                │
│                                       ▶         │
└──────────────────────────────────────────────┘
```

On the **Retain Customization** screen:

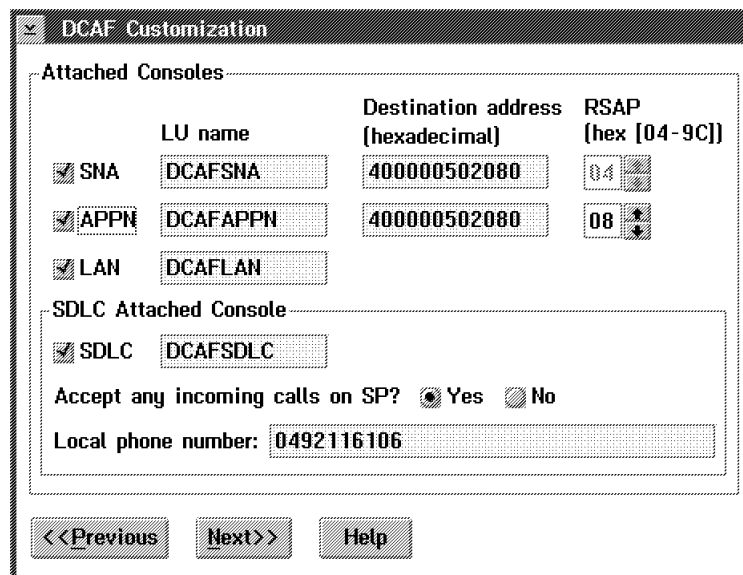___ 17. Verify the information recorded and make the necessary changes. Then, click on **Next>>** button.

```
┌──────────────────────────────────────────────────────┐
│ ⌄  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                        │
└──────────────────────────────────────────────────────┘
```

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	14 of 30	05 DEC 97	28 JAN 98			

14

On the **DCAF Customization** screen:

___ 18. Verify the information recorded and make the necessary changes.
Then, click on **Next>>** button.

```
┌─ DCAF Customization ──────────────────────────┐
│ ┌─Attached Consoles─────────────────────────┐ │
│ │                    Destination address RSAP│ │
│ │           LU name  (hexadecimal)  (hex[04-9C])│
│ │  ☑ SNA   DCAFSNA    400000502080      04   │ │
│ │  ☑ APPN  DCAFAPPN   400000502080      08   │ │
│ │  ☑ LAN   DCAFLAN                           │ │
│ ┌─SDLC Attached Console──────────────────────┐│
│ │  ☑ SDLC  DCAFSDLC                           ││
│ │  Accept any incoming calls on SP? ◉Yes ○No ││
│ │  Local phone number: 0492116106            ││
│ └────────────────────────────────────────────┘│
│   <<Previous   Next>>   Help                   │
└────────────────────────────────────────────────┘
```
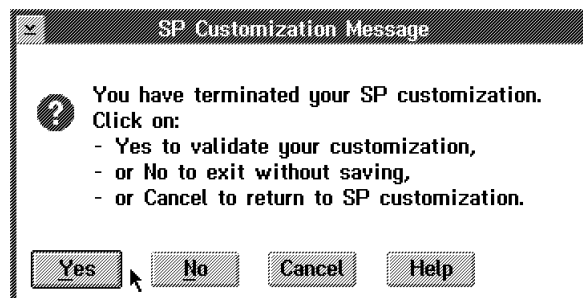
On **SP Customization Message** screen:

___ 19. Click on **Yes** button, to validate your customization, or

Click on **Cancel** button, to return to **Service Processor (SP) Customization** screen (Page 11)).
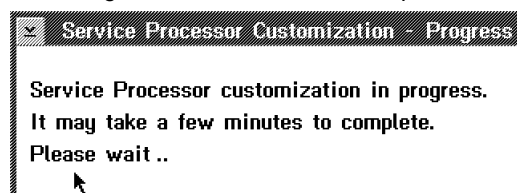
```
┌─ SP Customization Message ──────────────────┐
│  ❓  You have terminated your SP customization.│
│      Click on:                               │
│      - Yes to validate your customization,   │
│      - or No to exit without saving,         │
│      - or Cancel to return to SP customization.│
│   Yes    No    Cancel    Help                │
└──────────────────────────────────────────────┘
```

___ 20. The Service Processor customization start, follow the progress on the following screen. wait until completion.

```
┌─ Service Processor Customization - Progress ─┐
│  Service Processor customization in progress.│
│  It may take a few minutes to complete.      │
│  Please wait ..                              │
└──────────────────────────────────────────────┘
```

___ 21. Wait until completion. Then, click on **OK** button.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	15 of 30	05 DEC 97	28 JAN 98			

15

```
┌────────────────────────────────────┐
│ ⊻  Service Processor Customization Completion │
│                                              │
│    ❶  The Service Processor Customization    │
│        successfully completed.               │
│   ┌──────┐                                   │
│   │ OK ▸ │                                   │
│   └──────┘                                   │
└────────────────────────────────────┘
```
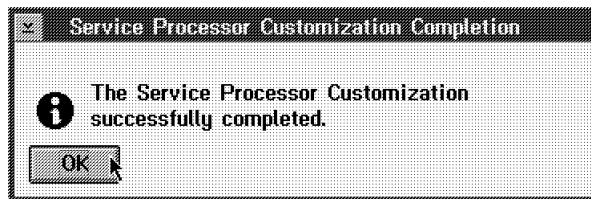
___ 22. If necessary, the Service Processor will reboot automaticaly.

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

Do you have any NNP attached to the Service Processor?

- If **No**, go to 10.2.2, "Applying the Latest MCFs Received." on page 22

- If **Yes**, continue with next step.

10.1.8 Upgrading the NNP(s) on 3746-9x0.

___ 1. On the **MOSS-E View** screen, double click on the **3746-9x0** icon.

___ 2. On the **3746-9x0 Menu** screen, click on **Network Node Processor (NNP) Management**.

___ 3. Double click on **Install/Remove/Change/Restore LIC/NNP**.

___ 4. Click on **NNP-A**, then click on **Restore LIC on NNP**.

___ 5. When requested, insert the **Network Node Processor installation diskette (PN 02L3537)** and follow the prompts until **Operation successfully completed** (Up to 45′)

___ 6. Click on **Close**.

___ 7. **If installed, repeat on the above procedure on NNP-B**; then, continue with next step.

Do you have any MAE attached to the Service Processor?

- If **No**, go to 10.2.2, "Applying the Latest MCFs Received." on page 22

- If **Yes**, continue with next step.

10.1.9 Saving the Image Code of the MAE Hard Disk on the SP Hard Disk

___ 1. Double click on the ″3746-**9x0 object icon**″

___ 2. Click on ″**Multiaccess Enclosure Management**″, double click on ″**Manage Multiaccess Enclosure**″.

___ 3. Click on ″**Backup code...**″,

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	16 of 30	05 DEC 97	28 JAN 98			

16

```
┌─ Ers5 840h Davinc/3746-9x0/MultiAccess Enclosure [MAE] Management ──────────── □ ─┐
│ ┌─Status──────────────────────┐  ┌─Consoles──────────────────────────────────────┐ │
│ │ ▦▦▌▌▐       MAE IP address   │  │  [ Configurator... ]  [ MOS... ]  [ ASCII... ]  [ Debug... ] │ │
│ │ ▦▦▌▌▐    ┌───────────────┐   │  └───────────────────────────────────────────────┘ │
│ │ ▦▦▌▌▐    │  9.100.77.94  │   │  ┌─Change Management─────────────────────────────┐ │
│ │ ▦▦▌▌▐    └───────────────┘   │  │  [ Upgrade code... ]  [ Backup code... ]  [ Restore code... ] │ │
│ │ ‖ ME ‖      [  Apply  ]      │  └───────────────────────────────────────────────┘ │
│ └─────────────────────────────┘                                                     │
│ ┌─Connection Messages─────────────────────────────────────────────────────────────┐ │
│ │ IP addresses on the Service Lan:                                              ▲ │ │
│ │  SP0T4K3: 9.100.77.91 (SP)                                                      │ │
│ │  CA122222: 9.100.77.92 (NNP)                                                    │ │
│ │  RIP22222: 9.100.77.93 (2080)                                                   │ │
│ │  DA122222: 9.100.77.94 (2216)                                                   │ │
│ │ Reading the current VPDs on the MAE, please wait...                             │ │
│ │ Current VPD on the MultiAccess Enclosure:                                     ▼ │ │
│ │ ◀ ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬ ▶ │ │
│ └─────────────────────────────────────────────────────────────────────────────────┘ │
│                                                                                      │
│                     [  Close  ]      [  Help  ]                                      │
└──────────────────────────────────────────────────────────────────────────────────────┘
```
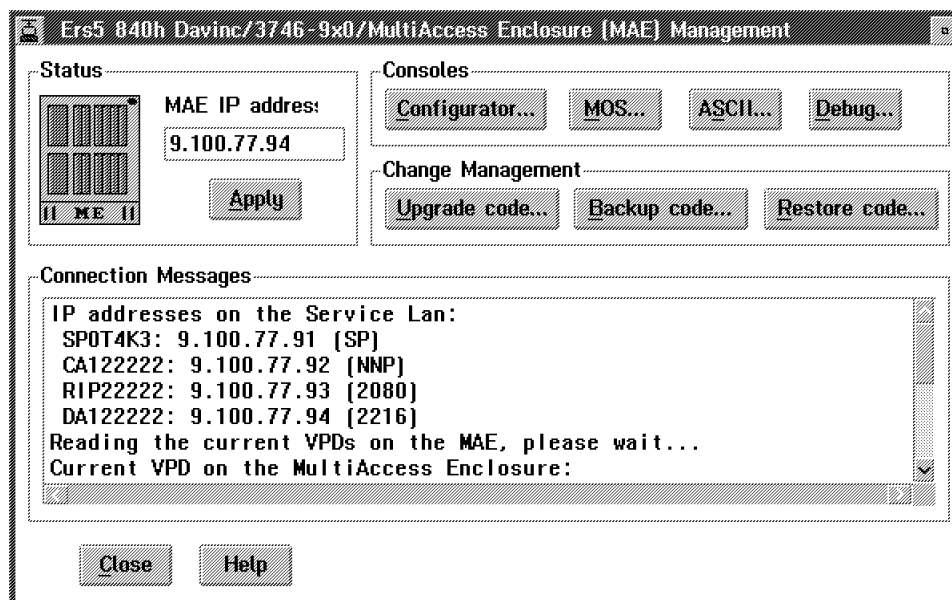
   __   4. Click on **Backup Bank A**, when completed, click on **Backup Bank B**.

```
┌─ Ers5 840h Davinc/3746-9x0/MultiAccess Enclosure [MAE] I ─────────┐
│                                                                   │
│ MAE bank code level already backuped on removable media is        │
│ ┌─────────────────────────────────────────────────────────────┐ │
│ │        BANK A            |         BANK B                     │ │
│ │ Product ID -  xxxxxxxxx  | Product ID -  xxxxxxxxx            │ │
│ │ Version ddd Release ddd  | Version ddd Release ddd            │ │
│ │ Maint.  ddd PTF     ddd  | Maint.  ddd PTF     ddd            │ │
│ │ Feat. ddddd RPQ   ddddd  | Feat. ddddd RPQ   ddddd            │ │
│ │ Date        xxxxxxxxxxx  | Date        xxxxxxxxxxx            │ │
│ └─────────────────────────────────────────────────────────────┘ │
│                                                                   │
│ Current MAE VPD are                                               │
│ ┌─────────────────────────────────────────────────────────────┐ │
│ │        BANK A            |         BANK B                     │ │
│ │ Product ID -   5765-B87  | Product ID -   5765-B87            │ │
│ │ Version   1 Release   1  | Version   1 Release   1            │ │
│ │ Maint.    0 PTF     0    | Maint.    0 PTF     0              │ │
│ │ Feat.  2802 RPQ     0    | Feat.  2802 RPQ     0              │ │
│ │ Date       21 Mar 1997   | Date        2 Mar 1997             │ │
│ └─────────────────────────────────────────────────────────────┘ │
│                                                                   │
│ Select which Bank you want to backup or click on Cancel.          │
│ ─────────────────────────────────────────────────────────────── │
│                                                                   │
│ [ Backup Bank A ]  [ Backup Bank B ]  [ Cancel ]  [ Help ]        │
└───────────────────────────────────────────────────────────────────┘
```

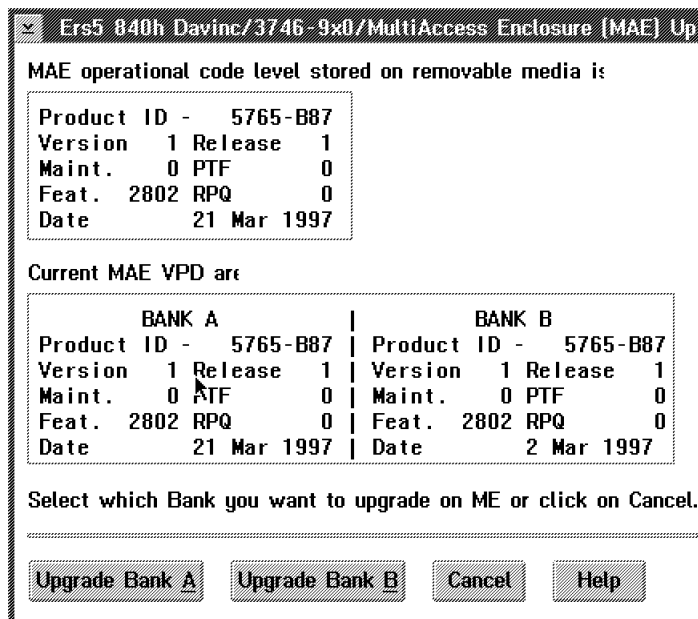| 3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	17 of 30	05 DEC 97	28 JAN 98			

17

10.1.10 Installing the MAE Code.

   1. Insert the Licensed Internal Code CD ROM (PN 02L2730) in the disk drive.

   2. On the "**Multiaccess Enclosure Management**" screen, click on "**Upgrade code...**" button.
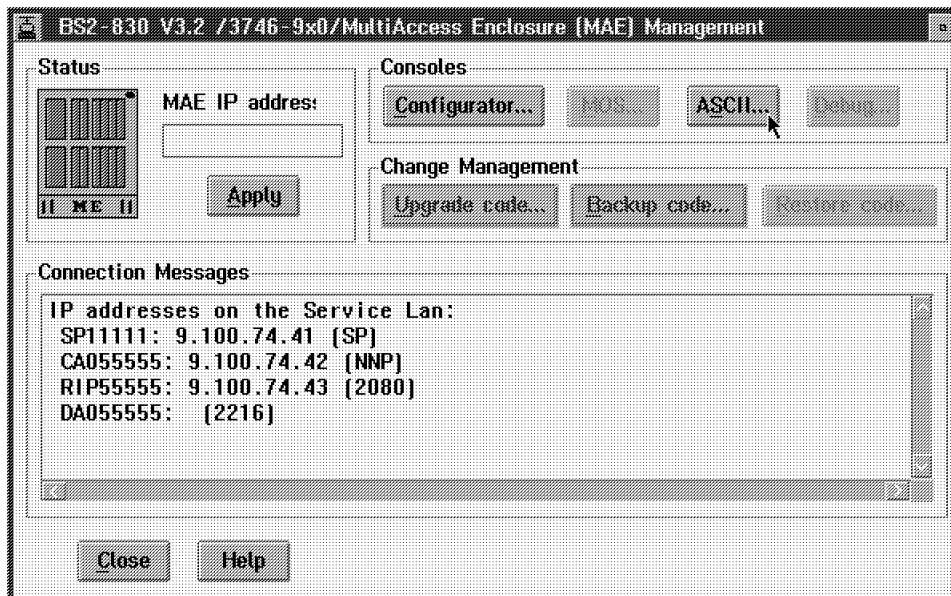
```
Ers5 840h Davinc/3746-9x0/MultiAccess Enclosure (MAE) Management

Status                              Consoles
                MAE IP address:      Configurator...  MOS...  ASCII...  Debug...
                9.100.77.94
                                    Change Management
                   Apply            Upgrade code...  Backup code...  Restore code...
  ME

Connection Messages
IP addresses on the Service Lan:
 SP0T4K3: 9.100.77.91 (SP)
 CA122222: 9.100.77.92 (NNP)
 RIP22222: 9.100.77.93 (2080)
 DA122222: 9.100.77.94 (2216)
Reading the current VPDs on the MAE, please wait...
Current VPD on the MultiAccess Enclosure:

       Close     Help
```

   3. Click on **Upgrade Bank A**, when completed, click on **Upgrade Bank B**.

```
Ers5 840h Davinc/3746-9x0/MultiAccess Enclosure (MAE) Up

MAE operational code level stored on removable media is

Product ID -    5765-B87
Version   1 Release   1
Maint.    0 PTF       0
Feat.  2802 RPQ       0
Date          21 Mar 1997

Current MAE VPD are

       BANK A            |        BANK B
Product ID -  5765-B87 | Product ID -   5765-B87
Version   1 Release  1 | Version   1 Release   1
Maint.    0 PTF      0 | Maint.    0 PTF       0
Feat.  2802 RPQ      0 | Feat.  2802 RPQ       0
Date       21 Mar 1997 | Date        2 Mar 1997

Select which Bank you want to upgrade on ME or click on Cancel.

Upgrade Bank A  Upgrade Bank B  Cancel  Help
```

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	18 of 30	05 DEC 97	28 JAN 98			

18

10.2 Installing the firmware

___ 1. On the ″**Multiaccess Enclosure Management** screen, click on **ASCII...**″.

___ 2. When the following screen is displayed, click on **OK**.

```
                        QV1
               VT220 Terminal Emulator
                    Version 1.00
            (c)Copyright 1989 QPC Software
                    P.O. Box 226
                  Penfield, NY 14526

                        OK
```
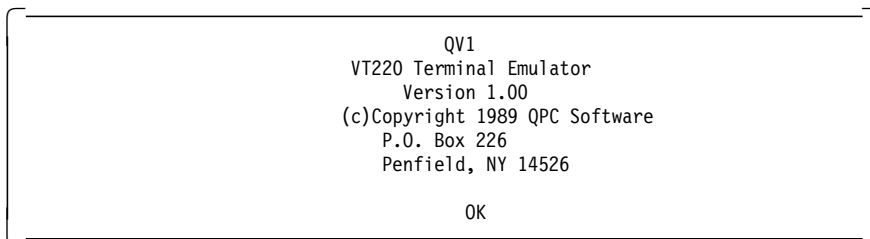
___ 3. Several window are displayed during tests. Wait until the **Boot Information** window is displayed.

___ 4. Press **F1** when required (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**

```
Nways System Firmware
Version 1.0
(C) Copyright IBM Corporation, 1996 All Rights Reserved.
                          System Management Services


Select one:
  1. Manage Configuration
  2. Boot Sequence Selection
  3. Select Device to Test
  4. Utilities






 Enter   -   Esc=Quit   -   F1=Help   -   F3=Reboot -   F9=Start OS -
 -----------  --------------  -------------  -------------  --------------
```

7. On the **System Management Utilitie** window, select **option 7 - Update System Firmware**

```
Nways System Firmware
Version 1.0
(C) Copyright IBM Corporation, 1996 All Rights Reserved.
                          System Management Utilities


Select one:
  1. Set Power-On Password
  2. Set Supervisory Password
  3. Enable Unattended Start Mode
  4. Disable Unattended Start Mode
  5. Remove Power-On Password
  6. Remove Supervisory Password
  7. Update System Firmware
  8. Display Error Log
  9. View or Set Vital Product Data
 10. Manipulate Dead Man Timer
 11. Remote Initial Program Load Setup
 12. Change Management
 13. Prepare Hard Disk
 Enter   -   Esc=Quit   -   F1=Help   -
 -----------  --------------  -------------
```

8. If not already done, insert the Licensed Internal Code CD ROM (PN 02L2730) in the Service Processor disk drive.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	20 of 30	05 DEC 97	28 JAN 98			

20

___ 9. From F/W Update options, select **option 2 - XMODEM a Remote Image File**.

```
Nways System Firmware
Version 1.0
(C) Copyright IBM Corporation, 1996 All Rights Reserved.
                          System Management Utilities

Select one:
   1. Set Power-On Password
   2. Set Supervisory Password
   3. Enable Unattended Start Mode
   4. Disable Unattended Start Mode
   5. Remove Power-O+----------F/W Update Options--------------+
   6. Remove Supervi|                                          |
   7. Update System | 1. TFTP a Remote Image File              |
   8. Display Error | 2. XMODEM a Remote Image File            |
   9. View or Set Vi| 3. Use a Local Image File                |
  10. Manipulate Dea|                                          |
  11. Remote Initial|  Enter - Esc=Quit -   F-1=Help           |
  12. Change Managem| -------   ---------    ------------------|
  13. Prepare Hard D+------------------------------------------+


   Enter   -   Esc=Quit   -   F1=Help   -
   -----------  --------------  -------------
```

___ 10. Type **d:LDMfirm.ld** and press **Enter**.

___ 11. A message states to start the Xmodem transfer when the window is closed.

The transfer process is time-sensitive and may time out before the process starts. Restart from the F/W Update Options menu if necessary.

 • If characters like '$' appear by the message box, it means that the connection is not established.
 • If 10-12 appears, Xmodem will likely time out and need to be restarted.

___ 12. After Xmodem completes, a message similar to the following is displayed:

```
          This selection will update your
          system firmware.  Do you want to
          continue?
```

___ 13. Type **NO**

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	21 of 30	05 DEC 97	28 JAN 98			

21

___ 14. From F/W Update options, select **option 2 - Local Image File**.

```
Nways System Firmware
Version 1.0
(C) Copyright IBM Corporation, 1996 All Rights Reserved.
                        System Management Utilities

Select one:
   1. Set Power-On Password
   2. Set Supervisory Password
   3. Enable Unattended Start Mode
   4. Disable Unattended Start Mode
   5. Remove Power-O+----------F/W Update Options-------------+
   6. Remove Supervi|                                        |
   7. Update System | 1. TFTP a Remote Image File            |
   8. Display Error | 2. XMODEM a Remote Image File          |
   9. View or Set Vi| 3. Use a Local Image File              |
  10. Manipulate Dea|                                        |
  11. Remote Initial|  Enter - Esc=Quit -   F-1=Help         |
  12. Change Managem| -------   ---------    ----------------|
  13. Prepare Hard D+----------------------------------------+

 Enter   -   Esc=Quit   -   F1=Help   -
 -----------   --------------   -------------
```

___ 15. Type **c:firm.ld** and press **Enter**.
When firmware updated is complited, the Multiaccess Enclosure reboots.

10.2.1 Installing a New Version of the MAE Configurator.

___ 1. If not already done, insert the Licensed Internal Code CD ROM (PN 02L2730) in the Service Processor disk drive.

___ 2. On the ″**Multiaccess Enclosure Management**″ screen. click on ″**Configurator...**″ button.

___ 3. Click on ″**OK**″ button, the new configurator is being copied from the compact disk to the SP hard drive.

___ 4. Click on ″**Close**″ button.

10.2.2 Applying the Latest MCFs Received.

> **Very Important**
>
> Did you received from your Support Center any MCFs to be installed on the new LIC?
>
> **No** Go to "Phase 2:" on page 6
>
> **YES** Apply the MCFs received according to procedure ′**Handling the Micro-code Fixes on the Licenced Internal Code**′ listed in the *Service Processor Installation and Maintenance (Based on 7585, 3172, and 9585)*, SY33-2120

End of Procedure 1, Go to "Phase 2:" on page 6 .

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

  __ 1. Ask the Customer for a maintenance window on the 3746-9x0 with traffic deactivated.

  __ 2. Perform a general IML on the 3746-9x0

10.3.1 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.

10.3.2 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) on the diskette drive.

  __ 5. Click on **OK** and wait for completion. If error, note message and contact support.

  __ 6. Click on **Cancel** to exit from the function.

10.3.3 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**.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	23 of 30	05 DEC 97	28 JAN 98			

___ 5. Perform the above saving procedure for the backup diskettes, then click on **Cancel**.

<div align="center">

End of Procedure 2..

</div>

Is another 3746-9x0 attached to the Service Processor?

- **Yes,** Go to "Phase 3:" on page 6.

- **No,** Go to 10.4, "Returning the Machine to Customer."

10.4 Returning the Machine to Customer
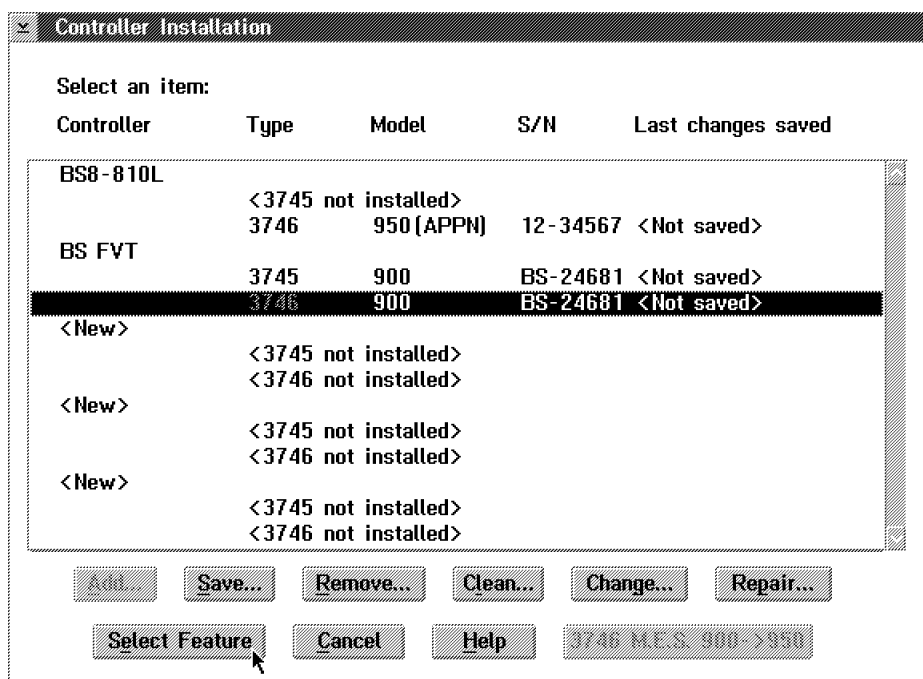
Do you have any NNP attached to the Service Processor?

- **YES**, Ask the customer if he wants to load the adapter code (APPN or IP) per processor type? Customer Answer:

    - **YES**, go to 10.4.1, "Adapter Code Loading per Processor Type." on page 25

    - **NO**, go to 10.4.2, "Logging OFF from Service Processor." on page 26

- **NO**, go to 10.4.2, "Logging OFF from Service Processor." on page 26

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	24 of 30	05 DEC 97	28 JAN 98			

24

10.4.1 Adapter Code Loading per Processor Type.

---- Note --
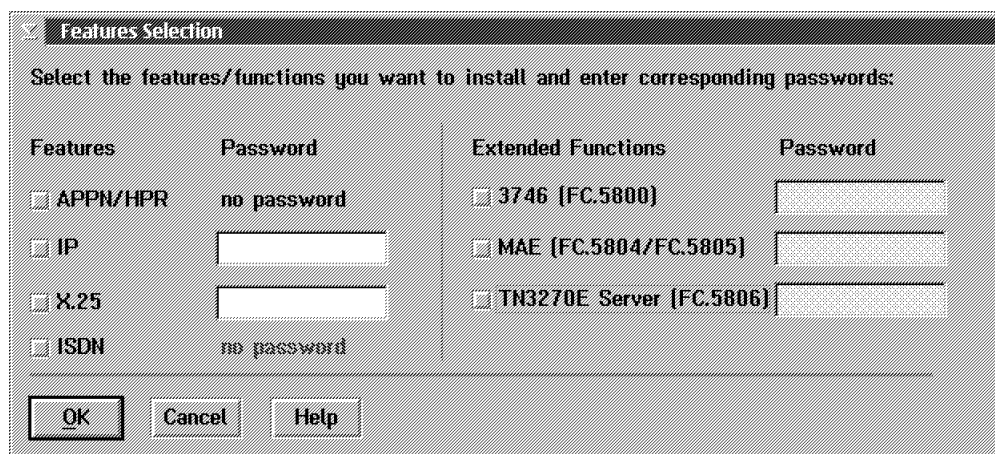
This procedure can be applied to each 3746-9x0 with a Network Node
Processor.

__ 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 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
```
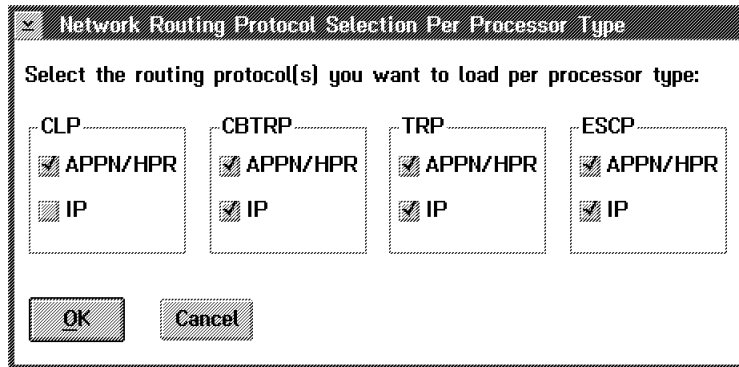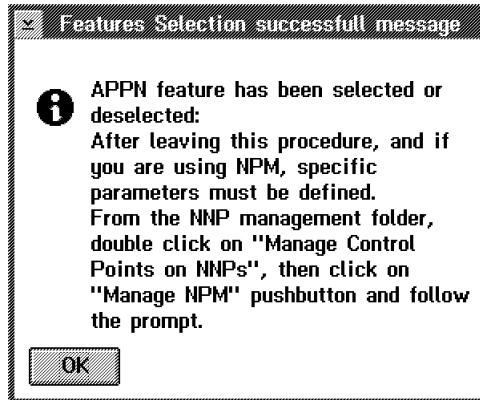
__ 3. On the **Feature Selection** menu, click on **OK**.

```
Features Selection

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

Features          Password              Extended Functions       Password

□ APPN/HPR        no password           □ 3746 (FC.5800)         [        ]

□ IP              [          ]          □ MAE (FC.5804/FC.5805)  [        ]

□ X.25            [          ]          □ TN3270E Server (FC.5806) [      ]

□ ISDN            no password

OK    Cancel    Help
```

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	25 of 30	05 DEC 97	28 JAN 98			

25

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

Network Routing Protocol Selection Per Processor Type

Select the routing protocol(s) you want to load per processor type:

CLP
☑ APPN/HPR
☐ IP

CBTRP
☑ APPN/HPR
☑ IP

TRP
☑ APPN/HPR
☑ IP

ESCP
☑ APPN/HPR
☑ IP

[OK]   [Cancel]

___ 5. Read the information message, then click on ″**OK**″ button.

Features Selection successfull message

ℹ APPN feature has been selected or deselected:
After leaving this procedure, and if you are using NPM, specific parameters must be defined.
From the NNP management folder, double click on "Manage Control Points on NNPs", then click on "Manage NPM" pushbutton and follow the prompt.

[OK]

___ 6. When completed, click on ″**OK**″ and perform a general IML to activate the feature installed.

___ 7. Repeat this procedure to the next 3746-9x0 with NNP, then go to 10.4.2, "Logging OFF from Service Processor."

10.4.2 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.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	26 of 30	05 DEC 97	28 JAN 98			

12.0 Field Updating

None.

After Installation (13-15)

13.0 Publications Update

None.

14.0 Parts Disposition

You MUST RETURN the removed Optical Disk Drive following the instructions given on the Returned Material Equipment Report (RMER) provided with this FFBM.

Return Container To :- Ship To Code 788 6XA

```
IBM NEDERLAND N. V.
C.O. NEDLOYD DISTRIBUTION CENTER
WESTPOORT B.V.
SCHARENBURG 1, 1046 BA AMSTERDAM
NEDERLAND.
```

The LIC (Optical Disk) is declared as Sensitive parts. Keeping the Master and Back-up Disks, RETURN all extra Optical disk to your local Branch office, to be returned to plant of Manufacturing HAVANT.

15.0 Machine Records

- Install updated machine history provided.

- Report the installation (As MES activity) and quality according to the existing procedure.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	27 of 30	05 DEC 97	28 JAN 98			

IBM   Installation Instructions

16.0 Appendix A. ESCON Configuration.

Very Important

Since EC D22560, the functions used to define the ESCON resources have changed:

- Up to now, you could use:

  - Either the EGA tool (level 3.6, stand-alone tool). or

  - the ″Manage ESCON Processors″ (function accessible from the 3746-9x0 menu).

- Now, to configure your ESCON processors, a new function has been developed and added on the service processor:

  - ″Configure ESCON Processors″.
    Invoking this function, you will use EGA (local, level 3.8).

A new version of the EGA tool (level 3.8, stand-alone tool) is also available. With this version you can export/import a configuration to/from a diskette.

Note: The ″Manage ESCON Processors″ function is now ONLY used to:

1. Display the lines status.
2. Display the stations status.
3. Manage the ESCON couplers status.

To be able to modify the ESCON configuration, save or re-enter your ESCON parameters as follows:

__ 1. **How did you define the ESCON resources?**
   If you have defined your ESCON resources using:

   - The EGA tool (3.6), go to 5.

   - ″Manage ESCON processors″ function, go to 2.

__ 2. Record Your ESCON Configuration Parameters:

   On your service processor:

   __ a. From the 3746-9x0 menu, click on **Configuration Management**.

   __ b. Double click on **Manage ESCON processors** and use this function to display and record your configuration parameters on a paper sheet, then go to 3.

__ 3. Install the EGA Tool (3.8):

   Obtain EGA 3.8 from your SE, then install on a PS/2 (or equivalent and running OS/2). Follow the installation instructions given in the READ EGA file (accessible from MKTTOOLS).

__ 4. Re-enter your ESCON Resources Definition: Using the EGA tool, re-enter you ESCON resources according to the parameters recorded in 2, then go to .

__ 5. Install the New Version of EGA (3.8):

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	28 of 30	05 DEC 97	28 JAN 98			

28

Note: To be able to recover the configuration data, install this new version on the same PS/2 where the old version was installed. Make sure that the configuration in EGA matches your current configuration. Obtain from your SE and replace your EGA with the new version (3.8) of the EGA tool. Follow the instructions given in the READ EGA file.

___ 6. Export your ESCON Configuration using EGA:

Using EGA, export your configuration on a diskette:

   ___ a. On the EGA primary screen, click on **Subset**.

   ___ b. Click on **Export** and insert a diskette to record the configuration, then

   ___ c. Go to 7 and ask your CE to upgrade the LIC to EC 840.

___ 7. Install Driver EC 840:

Use the Installation instructions PN DVR841, go to "Installation (Steps 9-12)" on page 6.

Note: When migrating from driver EC D22510″K″ to EC 840, the current ESCON configuration is saved. When the installation is completed, using the 'Manage ESCON Processors' function you can display this configuration by selecting the option 'Display old configuration'. This can help you to check what you recorded manually in 2.

___ 8. Import your Configuration:

From the 3746-9x0 menu:

   ___ a. Click on **Configuration Management**.

   ___ b. Double click on **Configure ESCON Processor**.

   ___ c. Click on **OK**.

   ___ d. Click on Subset.

   ___ e. Click on **Import** and insert the diskette which contains the configuration file saved in 6.

___ 9. Activate your Configuration:

   ___ a. Open the imported configuration, and save it.

   ___ b. Answer 'YES' to the message asking you to transmit the configuration to the ESCP.

   ___ c. Click on **OK** on the message explaining that a re-iml of the machine is required.

   ___ d. Then, Re-IML your 3746-9x0

End of instructions.

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	29 of 30	05 DEC 97	28 JAN 98			

29

3745	PN 02L1257	EC F12391	EC F12391A			
FFBM	30 of 30	05 DEC 97	28 JAN 98			