

Field Feature Bill of Material (FFBM) INSTALLATION of MICROCODE Level D46130"D"

On 3746-900 attached to 3745-XXA or on 3746-950 alone.

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3745 PN 02L2977 EC D46130D 29AUG97

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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.
- 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 22.

1.0 Machines Affected

3745 Models XXA or 3746 Models 9X0:

- With Service Processor type 9577 FC 5020 or type 9585 RC 5021 with 2 Gb HDD FC 5026, and
- Without Microcode Level D46130D.

Checkpoint: Check that the CSS 1 EC level is D46133.011.

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

Note: Refer to Chapter 3, Displaying the EC Level of Code in:

- Service Processor Installation and Maintenance Based on PS/2 9577, SY33-2095, or
- Service Processor Installation and Maintenance Based on PS/2 9585, SY33-2109, or
- Service Processor Installation and Maintenance Based on 3172. SY33-2111, or
- Service Processor Installation and Maintenance (Based on 7585, 3172, 9585, and 9577), SY33-2115.

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2.0 Related BMs and ECs

None.

3.0 BMs to be Installed

FBM PN FBM Title

02L2977 Installation of Microcode level D46130D on 3746-900 attached to 3745-XXA, and/or an 3746-950.

4.0 Preparation

- 1. Familiarize yourself with the purpose and details of the installation instruction before negotiating machine time with the customer.
- 2. Check all items listed on the BM(s) to determine that all parts have been received.
- 3. Before starting the installation, ask the customer:
 - To provide the maintenance password (Default: IBM3745).
 - To logoff the Service Processor (SP), if not already done.
- 4. 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.

6.0 Purpose and Description

6.1 Purpose

Update the 3746-9x0 microcode.

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6.2 Description

Install the new level microcode level D46130D.

- · 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 MCLs.
- 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	Nbr of CE	
02L2977	02L2977 1 to 3		1	

8.0 Tools/Materials Required

None.

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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 10.2, "Procedure 2 - 3746-9x0 Code Level Upgrade.."

Phase 3: Code level upgrade on the second 3746-9x0 (if any), as described in 10.2, "Procedure 2 - 3746-9x0 Code Level Upgrade.."

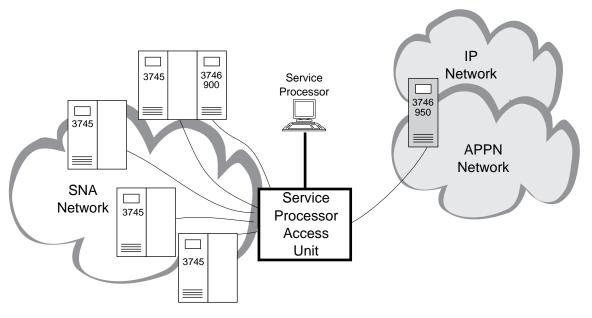


Figure 1. Service Processor Maximum Configuration.

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

	_	_ 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.
0.1.2	LIC Instal	latic	on
	_	1.	Insert the Service Processor installation diskette 1 (PN 80G5134) in the disk drive, then
	_	_ 2.	Power ON the Service Processor.
	_	_ 3.	Insert the optical disk (PN 58G7796) in the optical disk drive.
	_	_ 4.	Wait for the reboot completion, and when the first blue screen is displayed press Enter .
	_	5.	On the Service Processor Installation main Menu, select on option 2 (Update Licensed Internal Code), then press Enter
	_	_ 6.	Press Enter to acknowledge the confirmation pop up.
	_	7.	If HDD 400Mb in your Service Processor, you are requested to insert the Service Processor installation diskette 2 (PN 80G5135) and follow the prompts until Operation successfully completed .
	_	8.	If you have two 3746-9x0s connected to the same Service Processor, using the arrow keys, select the target 3746-9x0 code to be updated, and pressing the space bar, specify if you want to update the code for the selected 3746-9x0 (by default the two 3746-9x0 are selected), then press Enter .
	-	9.	Wait until message Update Licensed Internal Code, Operation Successfully Completed, then click on OK .
	_	10.	After Operation Completion panel, select option 6 (Exit) , then press Enter .
	_	_ 11.	Press Enter to acknowledge the confirmation pop up.
	_	12.	When message Remove the diskette and disk from the drives is displayed, remove them.
	_	_ 13.	Reinitialize the Service Processor by pressing Enter key, the reboot will take about 20 minutes before you see the MOSS_E Main view.
	_	14.	When the Service Processor is reinitialized, enter the Service Processor Administrator Password (default is IBM3745).

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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.

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10.1.3 Applying the Latest MCLs Received on 3746-900 MOSS-E

If RSF facility is available, retrieve MCLs from 'IBM Support System'. See Process A described in the chapter **'Handling the Microcode Change Level (MCL)** in the *SPIM*. Then, apply the latest MCLs on 3746-900 and the Service Processor following process C and process D of the *SPIM*.

— Do you have any NNP attached to the Service Processor?

- If No, go to 10.1.5, "Service Processor Customization."
- If Yes, continue with next step.

10.1.4 Upgrade the NNP(s) on 3746-9x0.

On the MOSS-E View screen,

- 1. Double click on the 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 Change LIC on NNP.
- 5. When requested, insert the Network Node Processor installation diskette (PN 80G5136) and follow the prompts until Operation successfully completed (Up to 35')
- 6. Click on Close.

If installed, repeat on the above procedure on NNP-B

10.1.5 Service Processor Customization.

- __ 1. On the **MOSS-E View** screen, double click on the **Service Processor** object icon.
 - Click on "Configuration Management".
- 3. Click on "Service Processor (SP) Customization".

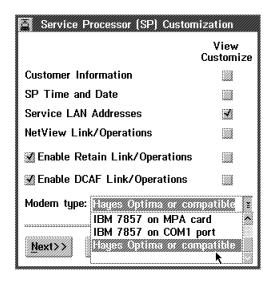
Service Processor Menu	10
<u>Function</u> <u>Options</u> <u>H</u> elp	
Configuration Management	
- C SP Customization	
Customize DCAF Target Settings	
└─ (M) Manage 3745/3746-9x0 Installation/Removal	

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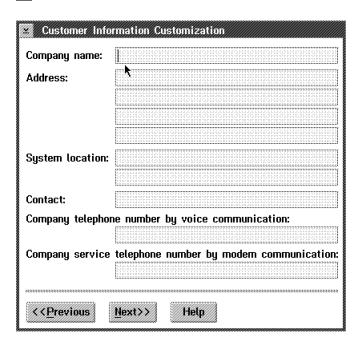
On the Service Processor (SP) Customization screen:

- 4. Click on every View Customize check boxes.
- __ 5. Click on Modem type drop down list, then select (click on) the modem and connection type of the modem used. Then,
- __ 6. Click on **Next>>** button.



On the Customer Information Customization screen:

- ____ 7. Verify the information recorded and make the necessary changes. Then,
- 8. Click on Next>> button.



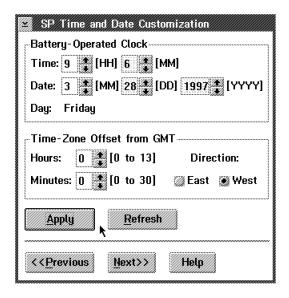
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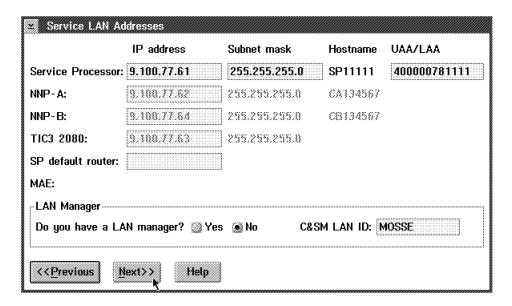
On the SP Time and Date Customization screen:

- 9. Verify the information recorded and make the necessary changes. Then,
- __ 10. Click on **Next>>** button.



On the Service LAN Addresses screen:

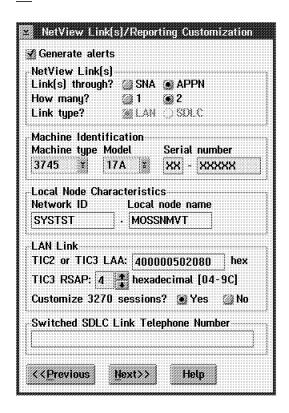
- ___ 11. Verify the information recorded and make the necessary changes. Then,
- __ 12. Click on **Next>>** button.





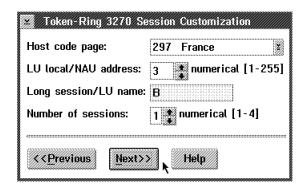
On the Netview Link(s)/Reporting Customization screen:

- ___ 13. Verify the information recorded and make the necessary changes. Then,
- __ 14. Click on **Next>>** button.



On the Token-Ring 3270 Session Customization screen:

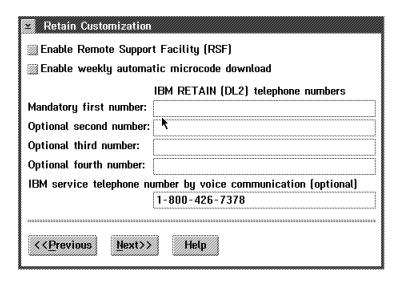
- ___ 15. Verify the information recorded and make the necessary changes. Then,
- __ 16. Click on **Next>>** button.





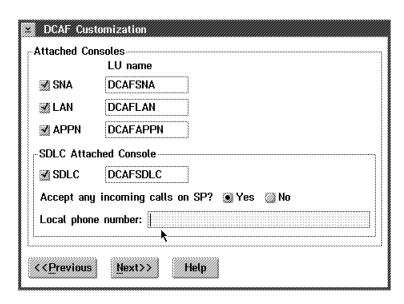
On the Retain Customization screen:

- ___ 17. Verify the information recorded and make the necessary changes. Then,
- 18. Click on Next>> button.



On the DCAF Customization screen:

- ___ 19. Verify the information recorded and make the necessary changes. Then,
- ___ 20. Click on **Next>>** button.

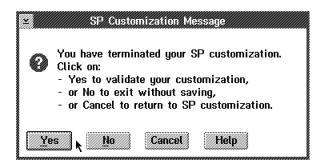




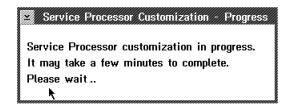
On SP Customization Message screen:

___ 21. Click on **Yes** button, to validate your customization, or

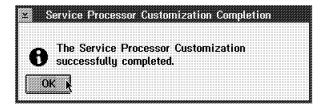
Click on **Cancel** button, to return to **Service Processor (SP) Customization** screen (Page 10)).



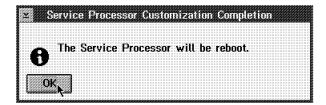
_ 22. The Service Processor customization start, follow the progress on the following screen. wait until completion.



___ 23. Wait until completion. Then, click on **OK** button.



___ 24. When the following screen appears, click on **OK** button.



End of Procedure 1, Go to 10.2, "Procedure 2 - 3746-9x0 Code Level Upgrade." on page 16.

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10.2	2 Proced		3746-9x0		. •		Ove with traffic
			sk the Custome eactivated.	r ior a mainter	iance window	on the 3746-	exu with trailic
		2. P	erform a genera	I IML on the 3	746-9x0		
10.2	.1 3746-9		OM Upgradlick on 3746-9x				
		2. C	lick on Change	Management			
		3. D	ouble click on U	lpgrade/Dowr	grade EEPR	OM.	
		·	ne Upgrade St a everse video.	atus area will	show the proc	essors to be o	changed in
		V	lick on OK to st /ait (up to 10 mi rocessor.	. •		atus is comple	ted for each
		6. C	lick on Cancel t	to leave the fu	nction.		
10.2	.2 Saving	Configu	ration Para	ameters			
		1. D	ouble click on th	ne Service Pr	ocessor icon.		
		2. C	lick on Operatio	on Manageme	nt.		
		3. D	ouble click on N	lanage Disks	and Databas	es.	
			se the radio but e configuration		Save database	es on optical	disk to save
			lick on OK and upport.	wait for compl	etion. If error	, note messag	ge and contact
		6. C	lick on Cancel t	to exit from the	function.		
10.2	.3 Updati	ng Instal	lation Para	meters D	iskettes		
		the forma	have upgraded t on the Installa approximately	tion Paramete			•
			n the Service F ick on Manage			_	Management,
			n the Controlle lick on SAVE .	r Installation	menu, Click o	n the 3746-9 x	0 installed, then
		Following	pop up window	confirming Sa	ving Active (CDF-E as Ref	erence:
			sert the 3746-9 e 3746-9x0, the		•	diskette (PN	17G5878) of
			n the third pop skette as instru	•	-	saved to disl	kette, remove
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5. Perform the above saving procedure for the backup diskettes, then click on Cancel.

End of Procedure 2..

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

- Yes, Go to "Phase 3:" on page 6.
- No, Go to 10.3, "Returning the Machine to Customer."

10.3 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 10.3.1, "Adapter Code Loading per Processor Type."
 - NO, go to 10.3.2, "Logging OFF from Service Processor." on page 19
- NO, go to 10.3.2, "Logging OFF from Service Processor." on page 19

10.3.1 Adapter Code Loading per Processor Type.

Note

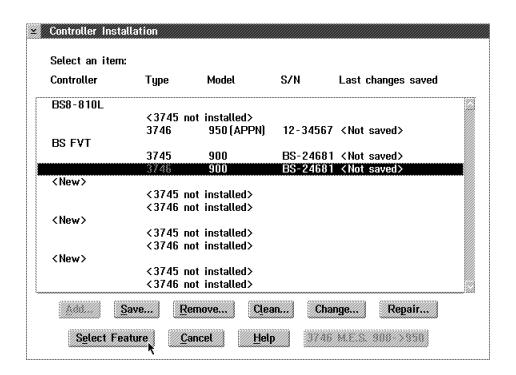
This procedure can be applied to each 3746-9x0 with a Network Node Processor.

1. On the Controller Installation menu, select the 3746-9x0 by clicking on the <3746-9x0> line, then click on "Select Feature".

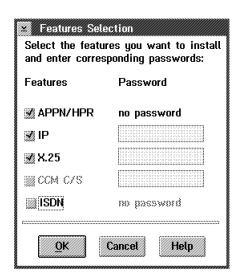
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2. On the Feature Selection menu, click on OK.

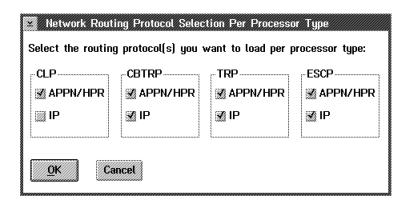


3. According to the customer's requirement, On the Network Routing Protocol Selection Per Processor Type menu, disable or enable the protocol loaded per processor type, then click on OK.

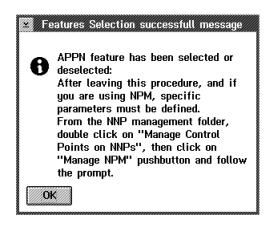
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4. Read the information message, then click on "OK".



- 5. When completed, click on "OK" and perform a general IML to activate the feature installed.
- __ 6. Repeat this procedure to the next 3746-9x0 with NNP, then go to 10.3.2, "Logging OFF from Service Processor."

10.3.2 Logging OFF from Service Processor.

- __ 1. On MOSS-E View window, click on Program.
- Click on LOG OFF MOSS-E.

11.0 Test Procedures

Not applicable.

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12.0 Field Updating

None.

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After Installation (13-15)

13.0 Publications Update

None.

14.0 Parts Disposition

14.1 Purchased Machines

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.

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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:

 How did you define the ESCON resources? If you have defined your ESCON resources using:
 The EGA tool (3.6), go to 5 on page 23.
 "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

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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 6 on page 23.
	5.	Install the New Version of EGA (3.8):
		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 D46130D.
	7.	Install Driver EC D46130D:
		Use the Installation instructions PN 02L2977, go to "Installation (Steps 9-12)" on page 6.
		Note: When migrating from driver EC D22510"K" to EC D46130D, 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
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EC D4	υI	JOD

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End of instructions.

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