IBM Installation Instructions

Field Feature Bill of Material

PN 02L2980

Installation of 3746 Extended Functions 1 (FC 5800)
on IBM 3746 Model 9X0.

Written by: C. Vallee
Checked by: C. Franoux
Approved by: A. Badino
Reviewed by: R. Lympany

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	1 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

1

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	2 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

2

Before Installation (Steps 1-8)

1.0 Machines Affected

IBM 3746 Model 9X0.

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

2.0 Related BMs and ECs

2.1 Prerequisites

(Must be installed prior to this installation)

Microcode Level: EC D46130I or higher.

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

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

Note: Refer to the SPIM or the Service User's Guide shipped with the service processor and use the procedure 'displaying the level of code installed on the hard disk'.

2.2 Concurrent ECs

(Must be installed together)
None.

2.3 Companion ECs

(May be installed together)
None.

3.0 BMs to be Installed

Feature BM	Feature Name
02L2980	3746 Extended Functions 1 (FC 5800)

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	3 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

4.0 Preparation

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

2. Verify that the 2 password sheets - Form (PN 02L3001) are received and provides the passwords needed to enable the software features.

3. Obtain the Service Processor Maintenance Password from the customer.

5.0 Programming

None.

6.0 Purpose and Description

To provide the microcode functions, not included in the base Licensed Internal Code (LIC) of the 3746 APPN/HPR Network Node and IP:

- 3746-NCP internal IP routing (NCP V7R6 prereq)
    - No external connections required.
    - Connections to the host can be performed thru the 3745 parallel channels.
- Dynamic windowing enhancement for FR and ISDN (NCP V7R6 prereq)
- X.25 traffic controlled by the NNP (independent from NCP)
    - 3746-controlled traffic: SNA/DLUR, APPN, HPR and IP
    - PVCs and SVCs
    - X.25 port: sharing between 3746 NN, 3746 IP and NCP ODLC traffic
    - NPM support (NPM V2R3 + PTFs)
- HPR/MLTG support over TR, Ethernet, SDLC, Frame Relay and X.25
  1 line removed
- Bandwidth Reservation System (BRS): 3746 PPP lines (IP traffic)
- Frame Relay switching (FRFH): 3746 lines controlled by the NNP
- CIR for 3746 frame relay lines controlled by the NNP
  Bandwidth Reservation System at DLCI level: IP, APPN, HPR
- PRI Euro-ISDN (LIC16/FC.5216) enhancements (3746-900/NCP V7R5+)
    - Automatic back-up of frame relay link over ISDN (non-disruptive for NCP to NCP connections)
    - Support of LIC16 for NPM (NPM V2R3 + PTFs)

7.0 Installation Time

FFBM	Machine Hrs.	System Hrs.	Nbr of CEs
02L2980	0.5	0.0	1

3746 FFBM	PN 02L2980 4 of 12	EC D46130D 29 AUG 1997	EC F12527 14 NOV 1997	EC F52322 09 OCT 1998		

4

8.0 Tools/Material Required

None.

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	5 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

Installation (Steps 9-12)

9.0 Safety

Not applicable.

10.0 Details of Installation.

__ Ensure that 3746-9x0 is powered ON and IML'd.

__ Ask the Customer to stop the traffic on the 3746-9x0

10.1 Unlocking the Extended Functions 1.

__ 1. If not already logged, enter the **Service Processor Maintenance Password** (Default is IBM3745).

__ 2. Double click on the **Service Processor** object icon.

__ 3. Click on **"Configuration Management"**.

__ 4. Double click on **"Manage 3745/3746-9x0 installation/Removal"**

__ 5. On the Controller Installation menu: Click on the 3746-950 or the 3746-900NN, on which the feature should be installed, then Click on **Select Feature** button.
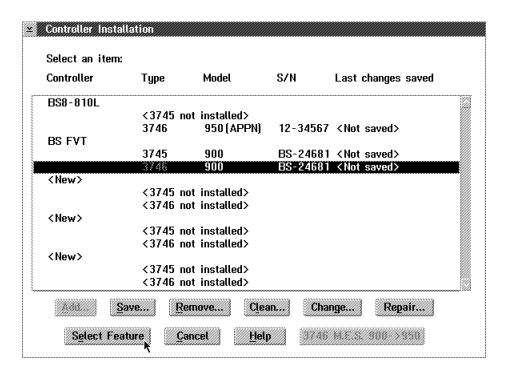
3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	6 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

6

Figure 1. Controller Installation

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	7 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

7

__ 6. On the **Features Selection** display:

    __ a. Click on the Extended Functions **3746 (FC.5800)** selection box,

    __ b. Enter the corresponding password (The password is recorded on the forms - PN 02L3001), then
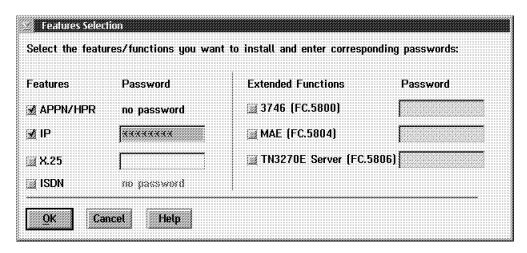
    __ c. Click on **OK** button.

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)	
☐ X.25		☐ TN3270E Server (FC.5806)	
☐ ISDN	no password		

[OK] [Cancel] [Help]

Figure 2. Features Selection

__ 7. On the **Features selection successful message** display:

- If an error is reported,
  - Note message and code, click on **"OK"**, then
  - Contact your support.
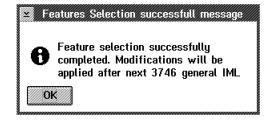- If no error is reported, click on **OK**

Features Selection successfull message

ℹ Feature selection successfully completed. Modifications will be applied after next 3746 general IML

[OK]

Figure 3. Features Selection

10.2 Activating the Installed Feature

__ 1. From the **MOSS-E View** screen, double click on the **Controller 3746-9x0** object icon, on which the feature has been installed.

__ 2. Click on **Operation Management**

__ 3. Double click on **Perform General IML**

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	8 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

8

What is the type of the disk drive installed:

- **OD**, go to 10.2.1, "Saving Configuration Parameters on Optical Disk"

- **CD-ROM**, go to 10.2.2, "Saving Configuration Parameters on Diskette"

10.2.1 Saving Configuration Parameters on Optical Disk

___ 1. From the **MOSS-E View** screen, double click on the **Service Processor** object icon.

___ 2. Click on **"Operation Management"**.

___ 3. Double click on **Manage Disks and Databases**.

___ 4. Select **"Save databases on optical disk"** by clicking on the radio buttons..

___ 5. Click on **"OK"** follow the prompts and wait for completion..

> **If error**
>
> 1. Note message and code, then
>
> 2. Refer to the **Start** page of:
>
>   - the *3746-900 Service Guide*, SY33-2116, if you are working on a **3746-900**, or
>   - the *3746-950 Service Guide*, SY33-2108, if you are working on a **3746-950**.

___ 6. Click on **"Cancel"** to exit from the function.

Go to, 10.3, "Returning the Machine to the Customer"

10.2.2 Saving Configuration Parameters on Diskette

___ 1. Double click on the **"service processor object icon"**.

___ 2. Click on **"Operation Management"**.

___ 3. Double click on **"Manage Disks and Databases"**.

___ 4. Click on **"Save databases on diskette"**, and click on **"OK"**.

___ 5. Insert the **configuration parameters diskette** (1.44 diskette, PN 02L3427) and follow the prompts.

___ 6. When the save is completed, click on **"Cancel"** to exit from the function.

10.3 Returning the Machine to the Customer

___ 1. Inform the Customer or his representative, that the 3746-9x0 is now ready to support the Extended Functions 1.

___ 2. Tell the customer that the traffic can be started, then

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	9 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

___ 3. Give the customer one of the Extended Functions 1 password sheets
     (Form - PN 02L3001).

11.0 Test Procedures

No test required.

12.0 Field Updating

None.

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	10 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

After Installation (steps 13-15)

13.0 Publications Update

File the second Extended Functions 1 password sheet in the SPIM binder (PN 29H4852).

14.0 Parts Disposition

Not applicable

15.0 Machine Records

- Install the new **MACHINE HISTORY** supplied.

- Report installation and quality problems using existing procedures.

End of instructions.

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	11 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

IBM Installation Instructions

3746	PN 02L2980	EC D46130D	EC F12527	EC F52322		
FFBM	12 of 12	29 AUG 1997	14 NOV 1997	09 OCT 1998		

12