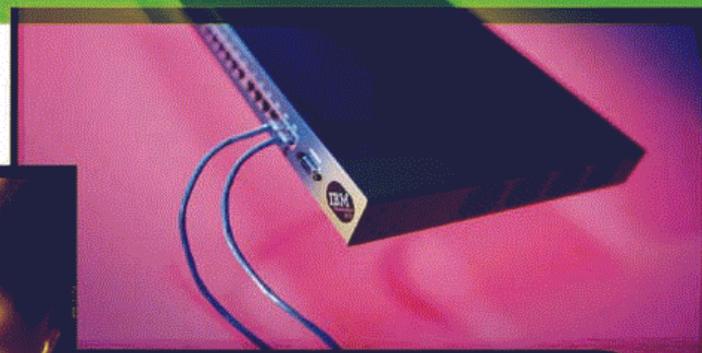


IBM 3746 Nways Multiprotocol Controllers Models 900 and 950

July 02, 1998
(Revision 11)



Service Processor & Network Node Processor Configuration Requirements

IBM 3746 - SP/NNP Feature Codes



- **Service Processor :**

- **FC #5020 Service Processor**

- (Type: 9577 withdrawn from Mkt)

- **FC #5026 Service Processor HDD Upgrade**

- (HDD 2GB formatted 1GB/2GB)

- **FC #5021 Service Processor**

- (Types: 9585, 3172 P/N 41H7520, 3172 P/N 55H7630, withdrawn from Marketing)

- **FC #5028 Service Processor Memory Expansion**

- (64MB, available on FC #5021)

- **FC #5029 Service Processor Rack Mount Kit**

- (required for SP re-installation in a Controller Expansion (FC #5023), if rack mount equipment is not available. It contains brackets/plate for Display, brackets support for SP, drawer for Keyboard/Mouse/Modem/ODD)

- **FC #5051 Service Processor CD-ROM Drive Upgrade**

- (It provides a CD-ROM drive for SP FC #5021)

- **FC #5052 Service Processor Type 2**

- (Type: 7585 with 96MB memory, 2GB HDD, CD ROM drive)

- **Network Node Processor :**

- **FC #5022 Network Node Processor**

- (Type: 3172, withdrawn from Marketing)

- **FC #5122 Network Node Processor Type 2**

- (Type: 7585)

- **FC #5027 Network Node Processor Memory Expansion**

- (64MB available on FC #5022)

- **FC #5037 Network Node Processor Memory Expansion**

- (64MB available on FC #5122)

IBM 3746 - SP/NNP Requirements (1/2)



SP

NNP

| SP/NNP types | FC #5020 Withdrawn | FC #5021 Withdrawn | | | FC #5052 (SP Type 2) | FC #5022 Withdrawn | FC #5122 (NNP Type 2) |
|--|-----------------------|-----------------------|------------------------------------|----------------------------------|--------------------------------------|-----------------------|--|
| 3746 Functions needed : | (9577) 486-33Mhz | (9585) 486-66Mhz | (3172) P/N 41H7520 486-66Mhz | (3172) P/N 55H7630 P-90Mhz | 7585 (CURRENT) P-200Mhz | (3172) P-90Mhz | (7585) (CURRENT) P-200Mhz |
| NCP traffic only | Yes | Yes | Yes | Yes | Yes | (2) | (2) |
| 2nd Exp. Enclosure (FC # 5016) | (1) | FC #5028 | FC #5028 | FC #5028 | Yes | (2) | (2) |
| SP Sharing | (1) | FC #5028 | FC #5028 | FC #5028 | Yes | (2) | (2) |
| APPN/HPR (NNP) IP (FC #5033) | FC #5026 | Yes | Yes | Yes | Yes | Yes | Yes |
| APPN (ISR/DLUR/RTP) More than : -3000 PUs -9000 LU-LU Sessions | FC #5026 | Yes | Yes | Yes | Yes | FC #5027 | FC #5027(4) FC # 5037 |
| APPN (ISR/DLUR/RTP) -More than 15000 LU-LU Sessions (up to 30000) (3) | NO | NO | NO | (1) FC #5028 FC #5051 | Yes | NO | FC #5027(4) FC # 5037 |

(1) Recommended alternative : replace this SP by SP Type 2 (FC #5052) for better response time at the operator console

(2) NNP not required

(3) Requires also CBSP3 or CBSP3 Upgrade

(4) FC No longer available on FC5122

Yes = Functions supported by the basic SP or NNP

IBM 3746 - SP/NNP Requirements (2/2)



SP

NNP

| SP/NNP types | FC #5020 withdrawn | | FC #5021 withdrawn | | FC #5052 (SP Type 2) | FC #5022 withdrawn | FC #5122 (NNP Type 2) |
|--|-----------------------|--|------------------------------------|------------------------------------|--------------------------------------|-----------------------|--|
| 3746 Functions needed : | (9577) 486-33Mhz | (9585) 486-66Mhz | (3172) P/N 41H7520 486-66Mhz | (3172) P/N 55H7630 P-90Mhz | 7585 (CURRENT) P-200Mhz | (3172) P-90Mhz | (7585) (CURRENT) P-200Mhz |
| 3746 - CD-ROM support - APING from SP2 | NO | (1) FC #5026 FC #5028 FC #5051 | (1) FC #5028 FC #5051 | (1) FC #5028 FC #5051 | YES | YES | YES |
| 3746 - More than 120 lines controlled by the NNP (up to 240) | NO | NO | NO | (1) FC #5028 FC#5051 | YES | YES | YES |
| 3746 FC #5802 | NO | NO | NO | NO | YES | YES | YES |
| MAE (FC # 3000) - and supported Features | NO | (2) FC #5026 FC #5028 FC #5051 | (2) FC #5028 FC #5051 | (2) FC #5028 FC #5051 | YES | YES | YES |
| MAE (FC # 3001) - and supported Features | NO | NO | NO | NO | YES | YES | YES |

(1) Recommended alternative : replace this SP by SP Type 2 (FC #5052) for better response time at the operator console

(2) Recommended alternative : replace this SP by SP Type 2 (FC #5052) to support MAE conversion from FC #3000 to FC #3001

Yes = Functions supported by the basic SP or NNP

IBM 3746 - Service Processors



OS/2 2.11
Table Top (*)
Proc 486 SX, 33 Mhz
Mem 32 MB (Max)
Disk 400 MB
Stacker (800 MB)
Modem MPA + 7855
VGA screen
Keyboard
ODD 128 MB (internal)
Bus MCA
DCAF 1.3
SPAU

Service Processor
(3172 P/N 41H7520)

OS/2 2.11
Rack Mount (*)
Proc 486 DX2, 66 Mhz
Mem 32 MB (96 MB)
Disk 2 GB
(1GB/2GB Formatted)
MPA Card
Modem 7855
VGA screen
Keyboard
ODD 128 MB (ext)
Bus MCA
DCAF 1.3
SPAU

FC # 5021

Service Processor
(3172 P/N 55H7630)

OS/2 2.11
Rack Mount
Proc PENTIUM, 90 Mhz
Mem 32 MB (96 MB)
Disk 2 GB
(1GB/2GB Formatted)

Modem 7857
VGA screen
Keyboard
ODD 128 MB (external)
Bus MCA
DCAF 1.3
SPAU
Rack Mount Kit

FC # 5021

Service Processor
Upgrade Type 2
(7585)

Warp
Rack Mount
Proc PENTIUM, 200 Mhz
Mem 96 MB (96 MB)
Disk 2 GB
(1GB/2GB Formatted)
Modem 7858 or 7857
Asy/Auto S
(Speed up to 33.6 Kbps)
VGA screen
Keyboard

CD-ROM
Bus PCI/ISA
DCAF 1.3.3
SPAU
Rack Mount Kit

FC # 5052

IBM 3746 - Network Node Processor



(No Longer Shipped)

Network Node Processor
(3172 P/N 41H7522)

OS/2 2.11
Rack Mount
Proc PENTIUM, 90 Mhz
Mem 64 MB
Disk 2 GB
(1GB/2GB Formatted)

Keyboard
Bus MCA
Rack Mount Kit

FC # 5022

(Currently Orderable)

Network Node Processor Type 2
(7585)

Warp
Rack Mount
Proc PENTIUM, 200 Mhz
Mem 64 MB
Disk 2 GB
(1GB/2GB Formatted)

Bus PCI/ISA
Rack Mount Kit

FC # 5122

NNP Memory Expansion

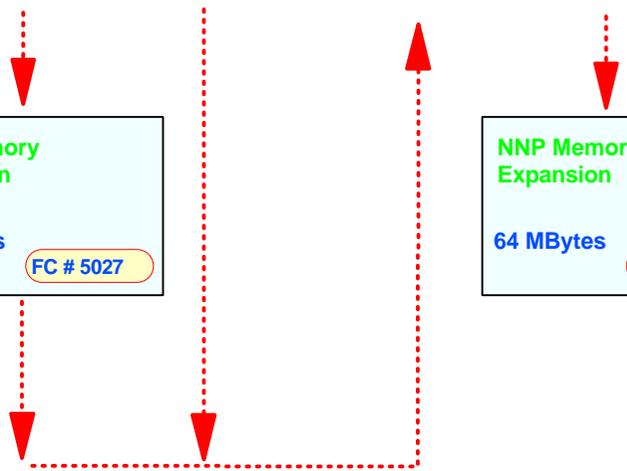
64 MBytes

FC # 5027

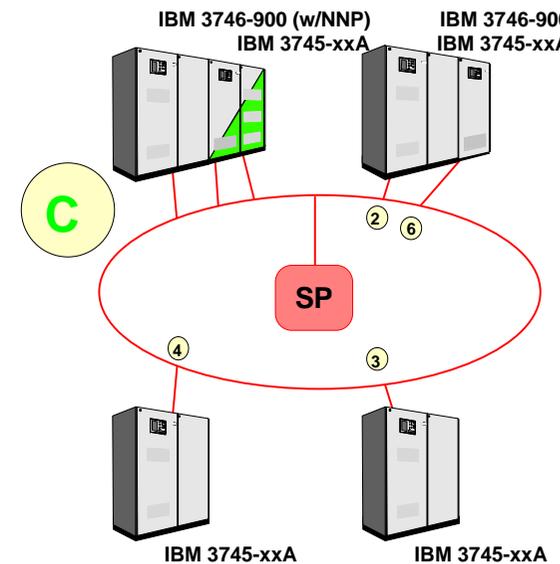
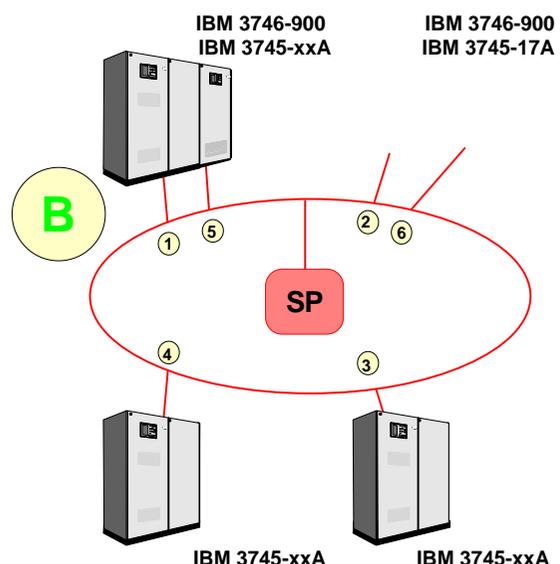
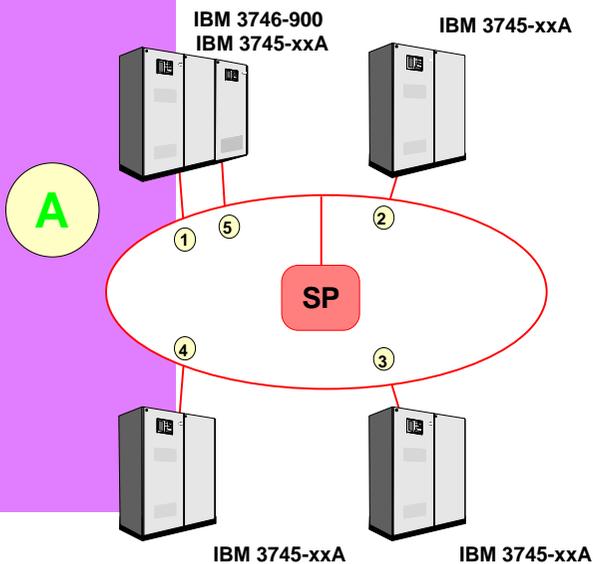
NNP Memory Expansion

64 MBytes

FC # 5037



IBM 3746 - SP Sharing (Examples of Max Configurations)



(*) Dual NNP
 (0, 1, 2, ..., 8) = Connections to the SP Access Unit (SPAU)
 (8228 required beyond 8 connections)