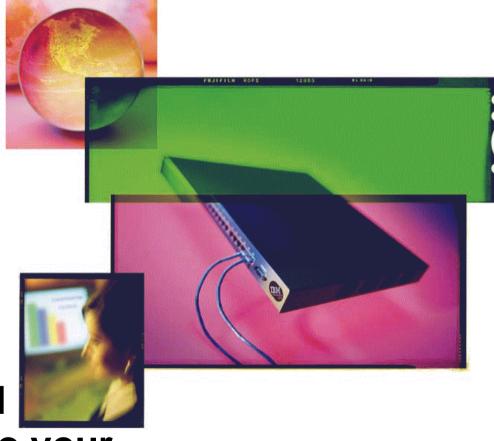


IBM 3746 Nways

Multiprotocol Controllers

Models 900 and 950

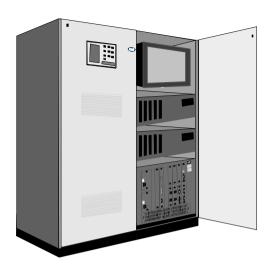
December 2, 1997 Announcement (Revision 1)



Link your Servers and Critical Applications to your Network

December 2nd 1997 Announcement





3746 Multiaccess Enclosure

Multiaccess Enclosure Enhancements

■ Token-Ring or Direct attach configurations

06/12/98

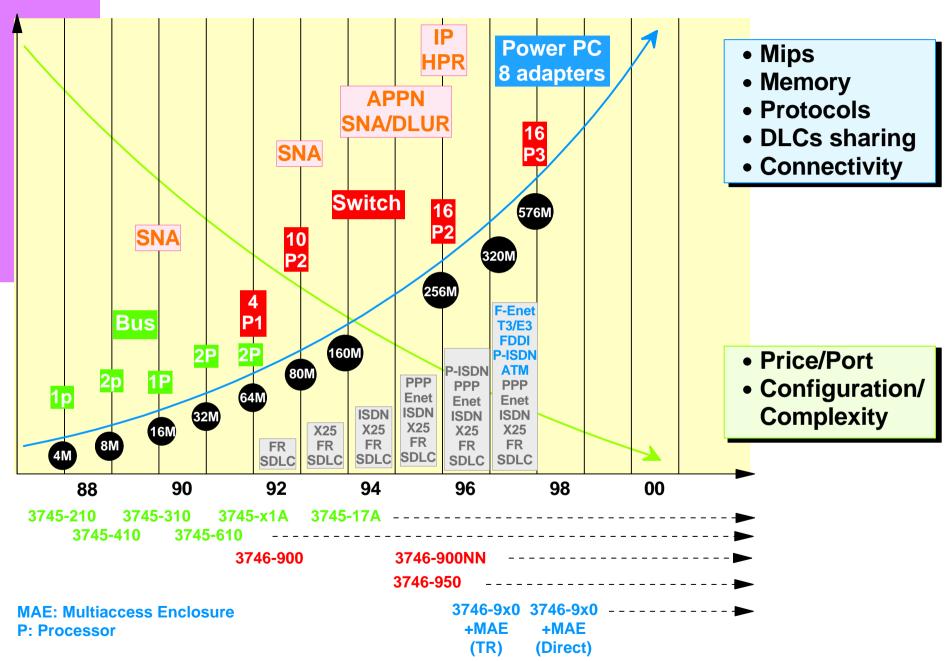
- FDDI
- Ethernet 10/100 Mbps
- HSSI T3/E3 speed
- Channelized/Fractional T1/E1
- Enterprise Extender
- IP and UDP over MPC+
- TN3270e Server

12/12/97

- Microcode/Documentation
 - CD-ROM Delivery

IBM 3745/3746 - Product Line Evolution



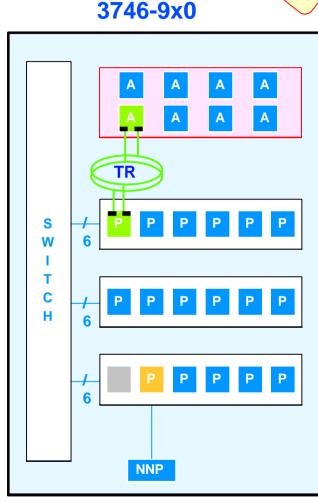


IBM 3746 Multiaccess Enclosure





Multiaccess Enclosure



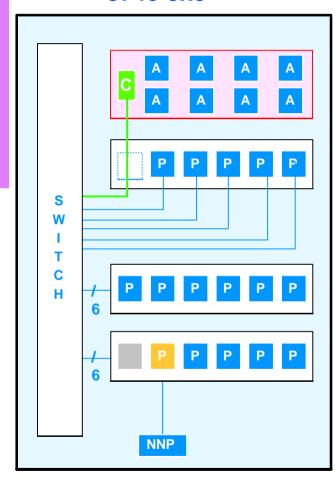
- First implementation is Token-Ring connected inside the 3746
 - No charge upgrade to future integrated platform
- Multiaccess Enclosure Feature #3000
 - Similar to 2216 base(Power PC, 8 PCI Adapters slots)
 - 7 slots for user traffic
 - 1 slot for internal Token-Ring connection
 - Includes Licensed Internal Code (IP, APPN/HPR..)
- IP Resources
 - Owned by MAE IP Control Point

IBM 3746 Multiaccess Enclosure





Multiaccess Enclosure 3746-9x0



- Hardware integration with 3746
 connectivity switch (6/12/98) #3001
 - IP support only in June
 - No charge upgrade from current implementation
 - Total of up to 23 integrated adapters
 - **★ 8 MAE adapters**
 - **★ 15 3746 processors**
- IP resources
 - Owned by 3746 IP Control Point
- Integrated MAE management
 - Configured from Service Processor
 - Single Router IP image
 - MAE maintained from Service Processor
- PowerPC resources in MAE optimized for integrated 3746 performance

The Highway for High Speed Server Access

IBM 3746 - New High Speed Adapters



6/12/98



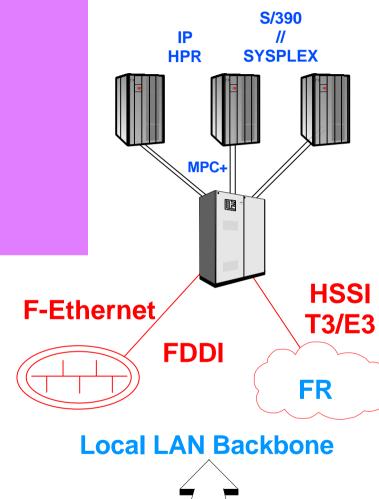
- High bandwidth access to campus backbones
- 100Mbps
- Either Dual Attach Station (DAS) or Single Attach Station (SAS) operation
- Multimode Fiber
- Hardware-based transparent bridge filtering
- Maximum 8 adapters per MAE *

- 1 port 10/100 Ethernet adapter

- High bandwidth access to campus backbones
- Operates at 10Mbps or 100Mbps or auto-negotiation
- Hardware-based transparent bridge filtering
- Maximum 8 adapters per MAE *

1 port High Speed Serial Interface (HSSI) adapter

- T3/E3 connectivity between sites, or consolidation of frame relay connections
- Speeds from 1.544Mbps up to 52Mbps
- DTE interface for network applications (connects to HSSI DCE)
- Maximum 8 adapters per MAE *
- Data Center interconnection, WAN consolidation and high speed LAN access
- Prerequisites:
 - -MAE #3000 or # 3001
 - Extended Function #5805
- * May configure with multiple adapters, but may not achieve full media thruput concurrently on all adapters



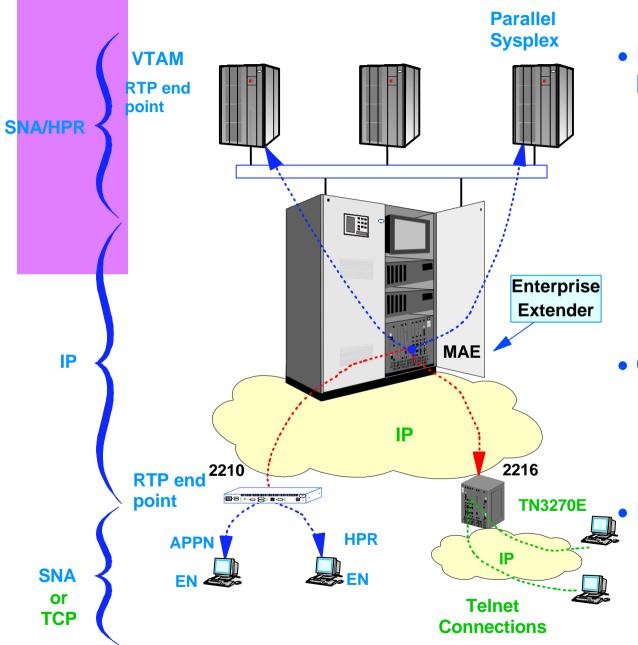
SNA

APPN/HPR

IBM 3746 - Enterprise Extender



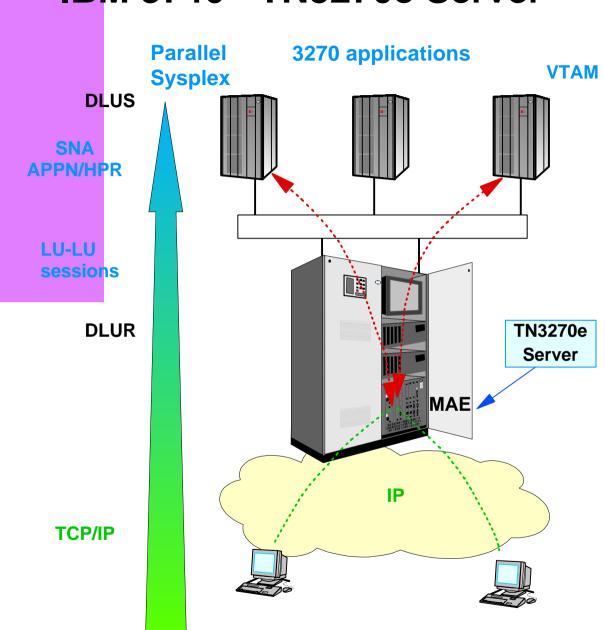




- Benefits of APPN/HPR over IP Network
 - Non disruptive session rerouting in case of failure
 - High performance congestion control mechanism
 - Priority queuing using SNA COS
 - Priority mapped into UDP port
- Configurations
 - SNA capable workstations
 - Distributed TN3270e servers
- Prerequisites:
 - MAE #3000 or # 3001
 - NNP + IP Routing
 - Extended Function 2#5805

IBM 3746 - TN3270e Server



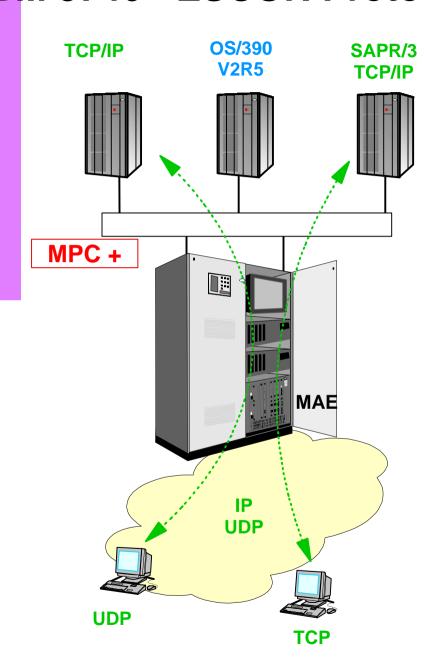




- APPN/HPR benefits from TN3270e Server up to the application
- Support RFC 1576, 1646, 1647
- DLUR/APPN used for upstream session
- Server access over ESCON, ATM, LAN
- Prerequisites:
 - MAE #3000 or #3001
 - NNP + IP Routing
 - TN3270e Server #5806
 - VTAM V4R2 or higher for DLUS

IBM 3746 - ESCON Protocols



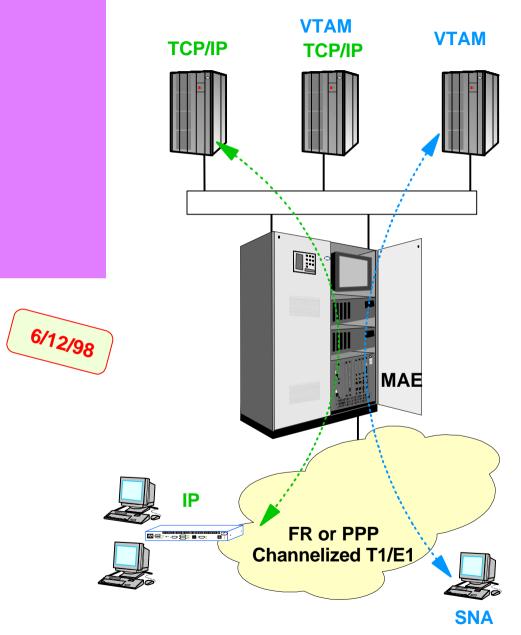




- MPC+ support for UDP and IP
 - Reduce S/390 cycles
 - More efficient transfer of data
- HPDT support for UDP and TCP
 - SAP R/3 applications
 - NFS, DCE UNIX applications
- Prerequisites:
 - MAE #3000 or #3001
 - CS/390 R5 (plus PTF for R4)
 - Extended Function 2 #5805

IBM 3746 - Channelized/Fractional T1/E1





- Channelized/Fractional T1/E1
 - Uses ISDN adapters
 - T1/J1:24 x 64 Kbps (LIC 283)
 - E1:31 x 64 Kbps (LI
 - (LIC 292)
 - Frame Relay and/or PPP supported
 - One or more 56Kbps or 64Kbps channels per physical interface (up to max of 24 or 31)
 - Channels may be bundled for higher bandwidth circuits (e.g. 6 channels providing a 384Kbps circuit)
 - Can use for primary or alternate interface with WAN Reroute (but not WAN Restoral)

• Prerequisites:

- MAE #3000 or #3001
- Extended Function 2 #5805
- LIC 283 #3283 or LIC292 #3292

IBM 3746 - CD-ROM Requirements







Microcode Delivery

- All new functions available after
 12/12/97 will be shipped on CD-ROM only. Eg
 - #5805 (Enterprise Extender, high speed adapter support)
 - **#**5806 (TN3270e server)
 - #5804 (Network Dispatcher, RIP V2)

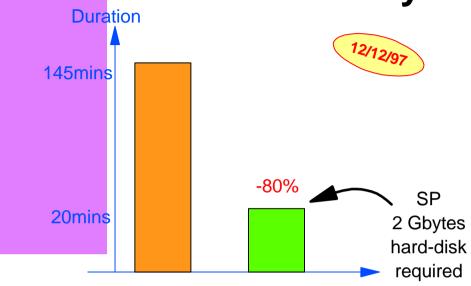
Prerequisites

- Either Service Processor Type 2 #5052
- Or Service Processory Type 1 #5021
 with appropriate upgrades
 - CD-ROM #5051
 - 64MB memory expansion #5028
 - 2GB hard disk #5026 (for SP Type 9585)

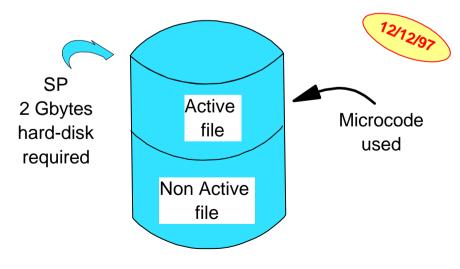
All microcode and publications will now be shipped on CD-ROM

3746 - Microcode upgrade Improvements -

Increase availability



Machine interruption time for microcode upgrade



Dual level of microcode

Increase availability

- Reduce machine microcode upgrade time by 80%
- Machine interruption equal to a general IML
- Reduce maintenance window requirements
- Application availability improved

Protect your production code level

- Upgrade done on non active level
- Operator switching control
- Easy switch back

Improve machine time efficiency

- Unused machine time can be used for testing
 - New level of code
 - New function
- Production level not impacted

Prerequisites

- CD-ROM, 96MB storage and 2GB hard disk
- SP #5052 (or SP #5021 with upgrades)