IBM 8210 Multiprotocol Switched Services (MSS) Server

MSS Version 2.0 enhancements:
- **Zero-Hop Routing**
- **APPN support for Distributed ARP server**
- **Banyan VINES routing,**
- **Device drivers for Windows 95 and Windows NT**

Super LAN Emulation (LANE) for ATM Emulated LANs (Super VLAN)

Virtual ATM interfaces

FDDI-to-ATM connection

Redundant IP gateway improvements

General description

The Multiprotocol Switched Services (MSS) Server is a key foundation of IBM's Switched Virtual Networking (SVN) strategy. Featuring award-winning, IBM developed technology that implements multiprotocol, distributed routing in switched networks, the MSS Server supports LAN switches using standards-based Next Hop Resolution Protocol (NHRP). By attaching the MSS Server to your campus ATM switch, you can create a high-performance multiprotocol backbone—and maximize the effectiveness of your existing networks while you migrate to an ATM network. The MSS Server provides a smooth migration path to ATM by enabling legacy networking software and hardware to take advantage of high-speed ATM backbones.

The MSS Server hardware is available in two formats: as a stand-alone box with 2 slots for 155-Mbps ATM adapters or as a 1-slot module—complete with a built-in Ethernet port and 603 PowerPC processor—for the IBM 8260 Nways Multiprotocol Switching Hub and the IBM 8265 ATM Switch.

Switch where you can, route where you must—MSS Server Version 2 helps you do just that. You can move routing functions to the edge of the network, thanks to IBM extensions to NHRP that enable workstations and servers to make routing decisions. Called Zero-Hop Routing, this capability helps MSS boost network performance while cutting costs associated with additional routers. MSS Version 2 also provides APPN functions similar to those found in the IBM 2210 Nways Multiprotocol Router and IBM 2216 Nways Multiaccess Connector.

Hot buttons

MSS Version 2.0 extensions:
- Zero-Hop Routing for reduced costs and improved network performance
- Support for key APPN functions such as dependent logical unit requester (DLUR), boundary access node (BAN), boundary network node (BNN) and High Performance Routing (HPR)
- Distributed ARP server for load-balancing and redundancy
- Banyan VINES routing over Emulated LANs (ELANs) and FDDI
- Windows 95 and Windows NT device drivers that support NHRP extensions
- Super LANE for ATM ELANs (Super VLAN)
- Redundant IP gateway improvements for enhanced end-station availability

MSS Version 2.1 extensions:
- Multiprotocol over ATM (MPOA) Server support
- Source-route Super VLANs

IBM versus the competition

Cisco Systems ATM Processor

- No integrated network management
- Several products required to provide equivalent MSS functions
- No broadcast management
- No Super VLAN
- No cut-through wire-speed routing
- No NHRP/cut-through routing
- No redundant LAN Emulation (LANE)
- No protocol VLANs
- No Quality of Service (QoS) for ELANs

Bay Networks ATM Routing Engine

- No integrated network management
- Several products required to provide equivalent MSS functions
- No broadcast management
- No Super VLAN
- No cut-through wire-speed routing
- No NHRP/cut-through routing
- No redundant LANE
- No protocol VLANs
- No QoS for ELANs

Reasons to choose the IBM 8210

- Smooth migration path from legacy networks to ATM
- Incremental upgrades
- Simplified network configuration and control
- One stand-alone box or one 8260 module provides all functions
- A comprehensive solution for all LAN types
- A scalable, reliable LAN Emulation solution
- Integrated network management

Ordering information

Feature Codes for 8210 MSS Server

001	8210 MSS Server
8707	MSS Microcode V 2
8709	MSS Microcode Upgrade V 1 to V 2
8706	MSS Microcode V 1
5301	Memory Upgrade to 64 MB
5205	MSS Client with MMF ATM link
5206	MSS Client with SMF ATM link
5207	MSS Domain Client

Feature Codes for 8260 MSS

5300	MSS Server Module, 2-slot
5400	MSS Server Module, 1-slot
8707	MSS Microcode V 2
8709	MSS Microcode Upgrade V 1 to V 2
8706	MSS Microcode V 1
5301	Memory Upgrade to 64 MB

For more information

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