IBM 2210 Nways Multiprotocol Router

Highlights

Security
Secure exchange of keys with Internet Key Exchange (IKE), an IPSecurity (IPSec) protocol.

IP enhancements
- Dynamic Host Configuration Protocol (DHCP) server provides IP address and other configuration information to LAN-attached DHCP clients. Multiple subnets can be configured on any LAN interface.
- IPv6 enhancements and IPv4 enhancements include generic IP route policy.

ISP access to public network
Dynamic IP is used to retrieve a public IP address from an ISP for use on the PPP interface.

Frame relay
Differentiated Services (DS) provides two new forwarding services (per-hop behaviors) for faster or earlier transmission for IPv4 packets.

Network management
- Lightweight Directory Access Protocol (LDAP) enables configuring and managing network policies in a central directory server by an administrator.
- Resource Reservation Protocol (RSVP) for IP and bundling of different PPP circuit types.

Connectivity
Two optional V.34 modem adapters with 4 or 8 integrated modems per adapter for analog data transmission speeds up to 33.6 Kbps.

Multiprotocol
- Supported routing protocols include IP, IPX, AppleTalk, BGP-4, Banyan VINES, DECnet IV and DECnet V/OSI.
- Supported network protocols include Bridging (also IP Bridging Tunnel), DSLw Version 2, APPN/HPR/DLUR, and LAN emulation client.

Quality of Service (QoS)
Additional Dynamic Reconfiguration allows parameters to be changed on an interface without affecting the operation of other interfaces.

Features and Benefits

Virtual private network (VPN) features
- IKE automatically sets up security associations and manages their cryptographic keys.
- Lightweight Directory Access Protocol (LDAP) enables network policies to be centrally configured and managed.
- L2F and PPTP support Virtual Private Dial-up Networking by allowing remote users to dial in locally.

Protocol improvements
Dynamic Host Configuration Protocol Server (DHCP) provides IP addresses and other configuration information for LAN attached DHCP clients, IP features and Dynamic IP ease configuring the IP address to access the Internet.



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Performance enhancements

- For frame relay, the maximum speed for WAN adapters with external clocking is increased to 6.312 Mbps (J2)
- SDLC full duplex stations have the option of 2-way simultaneous (TWS) scheduling to improve polling.

Scalability

- Increased interface capacity allows for more cost-effective dial support by extending the 253 limit to a limit that is not memory dependent.
- APPN extended border node allows large APPN networks to be subdivided for improved manageability and performance.

Key Selling Points

- Designed for a wide array of customer segments

- Enterprise and VPNs.
- Small to medium businesses.
- ISPs offering CPE services.
- Data centers with regional offices.

- Economical cost of ownership.
- Price-competitive access router with IBM service, support and ordering ease.
- Superior installation and management capabilities.
- EasyStart for Plug and Play installation.
- Graphical configuration program.
- Migration capabilities and flexible hardware design.
- Enhanced protocol and management capabilities.
- The MRS software, which is common-code based, uses open industry standards and protocols.