

Protocol Family Encapsulations

TCP/IP

ISO

AppleTalk

Novell Netware

Layer 7 Application

Provides standard services to applications and end-user interfaces.

Layer 6 Presentation

Performs data format conversion. Provides compression, encoding, and encryption of data.

Layer 5 Session

Establishes sessions between services. Synchronizes and performs translations for naming services

Layer 4 Transport

Manages connections and provides reliable packet delivery. Operates in units of messages.

Layer 3 Network

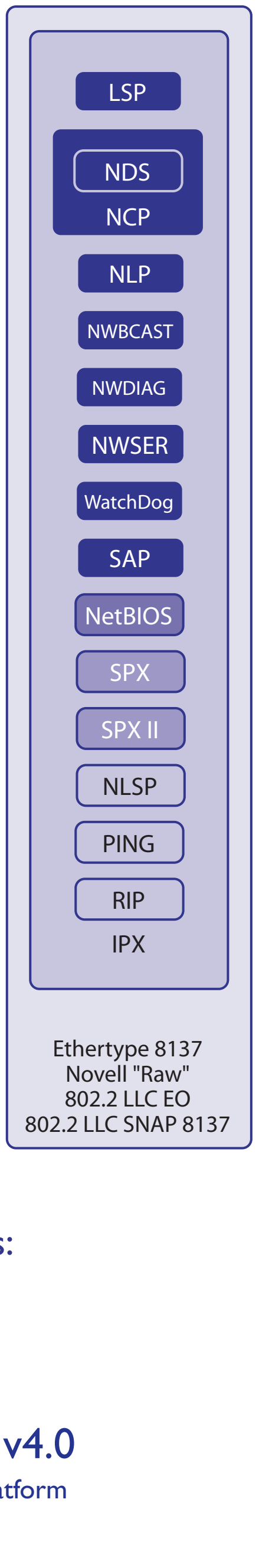
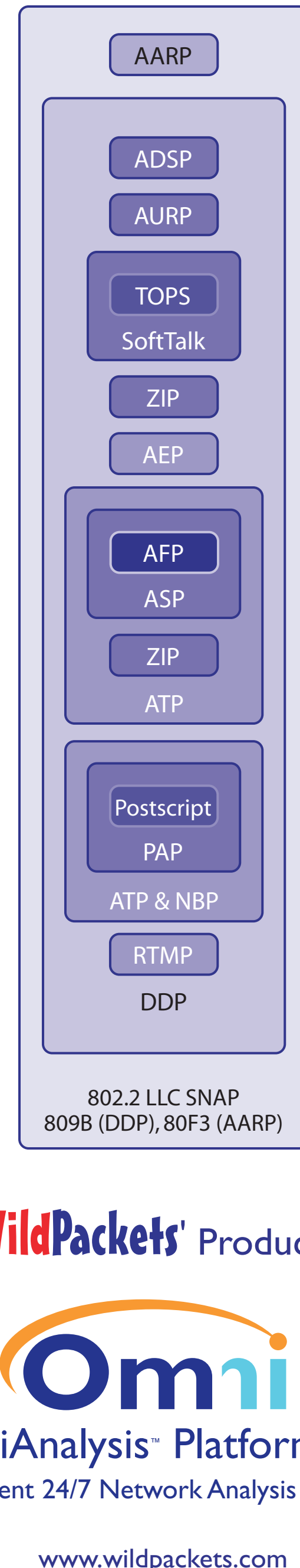
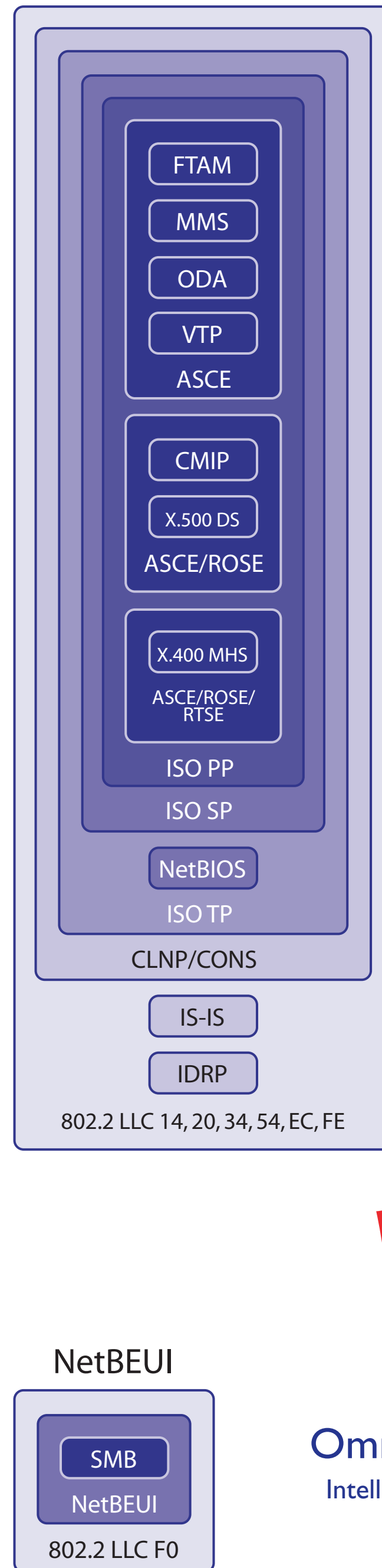
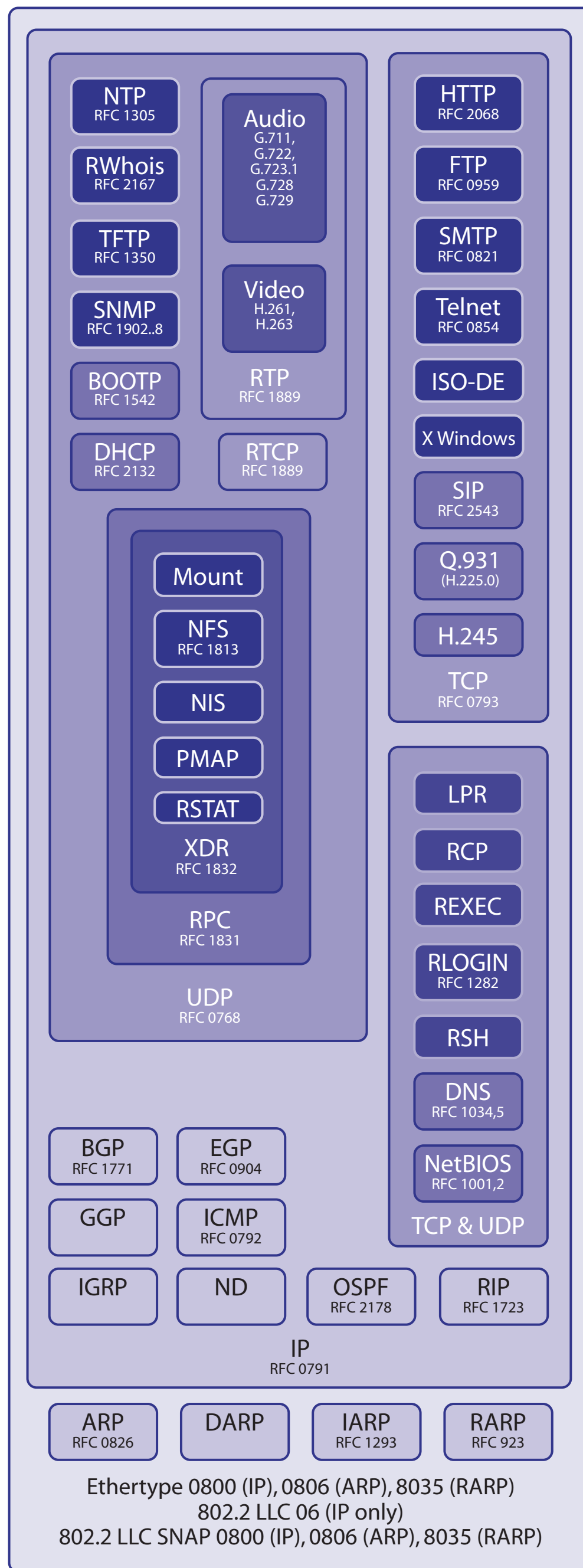
Addresses and routes datagrams. Performs fragmentation and reassembly (IP). Operates in units of packets.

Layer 2 Logical Link

Provides hardware addressing and error detection/correction. Operates in units of frames.

Layer 1 Physical

Defines connection, electrical, and wiring specifications. Operates in units of bits.



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|-------|--|---------|--|-----------|---------------------------------------|
| AARP | AppleTalk Address Resolution Protocol | ISO PP | Presentation Protocol | RIP | Routing Information Protocol |
| ADSP | AppleTalk Data Stream Protocol | ISO SP | Session Protocol | RLOGIN | Remote Login |
| AEP | AppleTalk Echo Protocol | ISO TP | Transport Protocol | ROSE | Remote Operations Service Element |
| AFP | AppleTalk Filing Protocol | ISO-DE | Development Environment | RPC | Remote Procedure Call |
| ARP | Address Resolution Protocol | LPR | Remote Print | RSH | Remote Shell |
| ASCE | Association Control Service Element | LSP | NetWare Lite Sideband Protocol | RSTAT | Remote Statistics |
| ASP | AppleTalk Session Protocol | MMS | Manufacturing Message Service | RTCP | RTP Control Protocol |
| ATP | AppleTalk Transaction Protocol | Mount | Mount Server | RTMP | Routing Table Maintenance Protocol |
| AURP | AppleTalk Update Routing Protocol | NBP | Name Binding Protocol | RTP | Real-time Transport Protocol |
| BGP | Border Gateway Protocol | NCP | NetWare Core Protocol | RTSE | Reliable Transfer Service Element |
| BOOTP | Boot Protocol | ND | Network Disk | RWhois | Remote Whois |
| CLNP | Connectionless Network Protocol | NDS | NetWare Directory Service | SAP | Service Advertisement Protocol |
| CMIP | Common Management Information Protocol | NetBEUI | NetBIOS Enhanced User Interface | SIP | Session Initialization Protocol |
| CONS | Connection Oriented Network Protocol | NetBIOS | Network Basic Input/Output System | SMB | Server Message Block |
| DARP | Dynamic Address Resolution Protocol | NFS | Network File System | SMTMP | Simple Mail Transfer Protocol |
| DDP | Datagram Delivery Protocol | NIS | Network Information Services | SNMP | Simple Network Management Protocol |
| DHCP | Dynamic Host Configuration Protocol | NLP | NetWare Lite Protocol | SPX | Sequenced Packet Exchange |
| EGP | Exterior Gateway Protocol | NLSP | NetWare Link State Protocol | TCP | Transmission Control Protocol |
| FTAM | File Transfer Access and Management | NTP | Network Time Protocol | Telnet | Telecommunications Network Protocol |
| FTP | File Transfer Protocol | NWBCAST | NetWare Broadcast Message Notification | TFTP | Trivial File Transfer Protocol |
| GGP | Gateway to Gateway Protocol | NWDIAG | NetWare Diagnostic Support Protocol | TOPS | Transcendental Operating System |
| HTTP | HyperText Transfer Protocol | NWSER | NetWare Serialization Protocol | UDP | User Datagram Protocol |
| IARP | Inverse Address Resolution Protocol | ODA | Office Document Architecture | VTP | Virtual Terminal Protocol |
| ICMP | Internet Control Message Protocol | OSPF | Open Shortest Path First | WatchDog | Station Keep Alive |
| IDRP | Interdomain Routing Protocol | PAP | Printer Access Protocol | X Windows | Graphical Windows |
| IGRP | Interior Gateway Routing Protocol | PING | Packet Internet Groper | X.400 MHS | Message Handling System |
| IP | Internet Protocol | PMAP | Port Mapper | X.500 DS | Directory Services |
| IPX | Internet Packet Exchange | RARP | Reverse Address Resolution Protocol | XDR | Exchange Data Representative Protocol |
| IS-IS | Intermediate System to Intermediate System Routing | RCP | Remote Copy | ZIP | Zone Information Protocol |
| | | REXEC | Remote Execution | | |