

OSI Model Quick Reference

OSI Layer	Data Types	Protocols	Description
Application	Message	FTP, HTTP, SNMP, SMTP, Telnet	Software implementation, user interface
Presentation	Packets		Formats Data, Encryption/Decryption, Compression/Decompression
Session	Packets		Session Control, Handshaking
Transport	Segments	TCP, SPX, UDP, NWLink, DNS, NetBIOS/BEUI	Flow Control, Sequencing, Transmission Control, Error Correction/Recovery, Name Resolution to Logical Address
Network	Datagrams	IP, IPX, NWLink, NetBIOS/BEUI, ARP, OSPF, RIP, DLC, ICMP, AppleTalk	Logical Addressing (Net Address ↔ MAC Address), Routing and Priority of Service
Data Link	Frames	ODI/NDIS, SLIP, PPP	Identifies Network Layer Protocols and encapsulates them [LLC], Assign Physical Address, CRC Error Detection (not correction) [MAC], NIC drivers
Physical	Bits		Puts data on or takes data off the pipe, Manchester encoding, physical hardware/cabling

To remember the OSI Layers, think...

APpS Transport Network Data Physically

To remember the Data Types, think...

Mud Packs Prevent Skin Damage, Facial Blemishes