

Networking Essentials

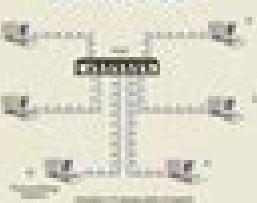
THE OSI MODEL				CABLE TYPES	
Layer	Description	Device	Implementations and Protocols	Type: 10BaseT (Cat5)	Type: 100BaseT (Cat5)
Application (7)	Provides services directly to user applications. Manages communication partners, identifies quality of service, considers user authentication and privacy, and determines if adequate resources are present.	Gateway	IMAP, HTTP, SMTP, FTP, SFTP, Telnet, AppleTalk	Standard: IEEE 802.3i Standard: IEEE 802.3 Speed: 10 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)	Standard: IEEE 802.3 Standard: IEEE 802.3 Speed: 100 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)
Presentation (6)	Performs data transformations and services including formatting, compression, and encryption services to provide a common interface for user applications.	Gateway and Modem	HTTP, FTP, Telnet, SFTP, Java, TEL	Standard: IEEE 802.3 Standard: IEEE 802.3 Speed: 100 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)	
Session (5)	Establishes, manages and terminates connections between applications on each end. Allows 2 applications to communicate over a network by agreeing on a session and synchronizing the involved computers.	Gateway	NetBEUI, TCP, LDP, SPX	Standard: IEEE 802.3 Standard: IEEE 802.3 Speed: 100 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)	
Transport (4)	Provides transparent transfer of data between end systems by abstracting layers 1-3 from complexities of layers 4-7. Responsible for end-to-end error recovery and flow control and assures complete data transfer.	Gateway	ATM, SVC, PPP, IP, FrameRelay	Standard: IEEE 802.3 Standard: IEEE 802.3 Speed: 100 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)	
Network (3)	Establishes, maintains, and terminates network connections. Handles traffic management including addressing, routing, switching, transmission, layout, path and related routes, error handling, congestion control and packet resequencing.	Router and Switch	ATM, SVC, PPP, IP, FrameRelay	Standard: IEEE 802.3 Standard: IEEE 802.3 Speed: 100 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)	
Data Link (2)	Divided into two sub-layers: The Media Access Control (MAC) sub-layer controls how a networked computer gains access to the data and permission to transmit it. The Logical Link Control (LLC) sub-layer coordinates synchronization, flow control and error checking.	Switch, Bridge and Router	Ethernet, PPP, HDLC	Standard: IEEE 802.3 Standard: IEEE 802.3 Speed: 100 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)	
Physical (1)	Concrete representation of the bit stream data over the physical medium. Encodes the raw layer sub-layer transmission to the electrical and mechanical level including signal voltage coding, voltage duration, etc.	Modem/Router and Repeater	Ethernet, Token Ring, FDDI	Standard: IEEE 802.3 Standard: IEEE 802.3 Speed: 100 Mbps Connectivity: Twisted Pair Max. Length: 100 meters (100 m)	

NETWORK TOPOLOGIES

The physical topology of a network refers to the physical configuration of cables, computers, and network devices. Logical topology is the method used to pass information between network devices.



STAR TOPOLOGY



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