OSI Model

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#CiscoCert Shortcuts

LAYER	APPLICATION/ EXAMPLE		CENTRAL DEVICE PROTOCOLS			DOD4 MODEL
APPLICATION (7) Serves as the window for users and application processes to access the network services.	End User Layer: Program that opens what was sent or creates what is to be sent		User Application SMTP	ations		
PRESENTATION (6) Formats the data to be presented to the Application layer. It can be viewed as the "Translator" for the network.	Syntax Layer: Encrypt & decrypt (if needed)		JPEG/ASCII/EBDIO TIFF/GIF/PICT	C/		Process
SESSION (5) Allow session establishment between processes running on different stations.	Synch & send to ports (logical ports)		Logical Ports RPC/SQL/NFS/ NetBIOS names		G A	
TRANSPORT (4) Ensures that messages are delivered error-free, in sequence, and with no losses or duplications.	TCP: Host to Host, Flow Control	-ILTERING	TCP/SPX/UDP		T E W	Host to Host
NETWORK (3) Controls the operations of the subnet, deciding which physical path the data takes.	Packets: "letter", contains IP address	PACKET	Routers IP/IPX/ICMP		A Y	Internet
DATA LINK (2) Provides error-free transfer of data frames from one node to another over the Physical layer.	Frames: "envelopes", contains layer 2 address (ex MAC address)		Switch Bridge WAP PPP/SLIP	d Layers		Network
PHYSICAL (1) Concerned with the transmission and reception of the unstructured raw bit stream over the physical medium.	Physical structure: Cables, hubs, etc.		Hub	LAN Based Layers		