

The OSI (Open Systems Interconnection Model) All People Seem To Need Data

Processing

HTTP FTP **Application Layer** Protocols used DNS POP3 Real World Application The images and content on your browser Converts the data into an understandable It deals with character encoding, encryption, etc.. Presentation Layer Usually combined with layer 7 because the functionality is so closely associated with the usability of the application Real World Application Application Encryption (SSL/TLS) Communication management (used to start, stop, and restart communication between a device and another) Session Layer Control protocols and tunneling protocols Protocols used The post office layers TCP (Transmission Control Protocol) Protocols used **UDP** (User Datagram Protocol) Transport Layer It delivers data TCP segments **Real World Application UDP** datagram It's called the routing layer because it's associated with IP addresses and the routers make forwarding decisions based on the IP addresses Fragments frames to traverse different networks Network Layer Communication is done between different types of networks IP address Real World Application Router Packet It's the foundation of communication Data Link Control (DLC) Protocols Media Access Control (MAC) addresses It's called the switching layer because the switches make forwarding decisions based Data Link on the MAC addresses Frame MAC address Real World Application Extended Unique Identifier (EUI-48/64) Switch Cables The physicals of the network Devices Connectors It's about the signaling Physical Layer It's not about protocols Cables **Real World Application** Fiber Signal

The layer the end user sees