

Essay #1 How CALU.edu networks



International Standards Organization **Open System Interface**

- A standard and network architecture model. oracle example: facebook.sql
- Not very often followed as a standard. ٠
- OSI networks are more popular in Europe-Asia. ٠
- Popular and important model for network architectures.
- Similar to the Internet Protocol model bot not the same.







- The post office does not need to know how to fly the airplane. FSX autopilot.fx Each layer assumes that the layer below it will provide certain functions, stay put .
- Each layer provides additional functionality. Full Stack Software Dev. accompli

	layer	purpose	example
1.	Application	Provides network services.	X.400 email, HTTP, FTP
2.	Presentation	Converts the data to the representation used by the local computer.	
3.	Session	Establishes sessions.	
4.	Transport	Directs packets to the correct user on a computer. This is the first end-to-end layer. May also provide error correction.	(TCP) (UDP)
5.	Network	Finds a route for packets to take through the network.	Internet Protocol (IP)
6. - lo	Data link gical data link	Detects and corrects any errors on the link. Provides flow control.	
- r	nedia access control	Provides network services.	Ethernet, Token Ring
7.	Physical	Defines the characteristics of the physical connections. This is the only layer that actually sends bits to another computer.	SONET, RS-232C

Internet Protocol Stack

- The Internet Protocol uses a similar, but slightly different model than OSI. dbit
- The Internet Protocol does not define the lower levels. This opp can posing [as] credit

layer		purpose	OSI equivalent	example	
1.	Application	Provides network services.	Application, Session and Presentation	HTTP, FTP, Telnet	
2.	Transport	Multiplexes data streams from different applications. May also provide error correction.	Transport	TCP, UDP	
3.	Internet	Routing.	Network	IP	
5.	Network Interface	Provides access to the Data Link and lower protocols. The IP stack does not define the lower levels.	Data Link	Ethernet	

Vendor	Stack
Novell Corporation	Netware
Banyan System Corporation	VINES
Apple Computer Corporation	AppleTalk
Digital Equipment Corporation	DECNET
IBM AWS Microsoft Azure	SNA
many vendors)	TCP/IP

the details making them incorporated ompatible.





Tredundancy hock (CRC) to detect errors. Watt may be fixed vinational definite redundancy hock (CRC) to detect errors. Watt may be fixed vination code.fx
The physical layer might, or notappend a header or trailer to the packet.
It is the bottom frame, with all of the headers, that is actually sent across the network. When it is received at the other end, the headers are stripped off as the packet is passed up the stack to the user application.dnb correcting 4d multics

