

OSI Layer #	ISO Layer Name	TCP/IP #	TCP/IP layer Name	Encapsulation Units	Devices or Components	TCP/IP Protocols	Keywords/Description
7	Application (Away)	4	Application (Apple)	data	PC	FTP, HTTP, POP3, IMAP, telnet, SMTP, DNS, TFTP	Network services for application processes, such as file, print, messaging, database services
6	Presentation (Pizza)			data			Standard interface to data for the application layer. MIME encoding, data encryption, conversion, formatting, compression
5	Session (Sausage)			data (Drippy)			Interhost communication. Establishes, manages and terminates connection between applications
4	Transport (Throw)	3	Transport (Tainted)	segments (Sweet)		TCP, UDP	End-to-end connections and reliability. Segmentation/desegmentation of data in proper sequence. Flow control
3	Network (not)	2	Internet (Ingest)	packets (Pancakes)	router	IP	Logical addressing and path determination. Routing. Reporting delivery errors
2	Data Link (DO)	1	Network Access (Never)	frames (For)	bridge, switch, NIC		Physical addressing and access to media. Two sublayers: Logical Link Control (LLC) and Media Access Control (MAC)
1	Physical (Please)			bits (Breakfast)	repeater, hub, tranciever		Binary transmission signals and encoding. Layout of pins, voltages, cable specifications, modulation