

1 Network Models

Terminology

TCP/IP Protocol Definition Documents	
UDP hands a segment to IP for addressing	<input type="checkbox"/> Adjacent-Layer Interaction <input type="checkbox"/> Same-Layer Interaction
TCP uses segment numbers to put segments of a stream back in order	<input type="checkbox"/> Adjacent-Layer Interaction <input type="checkbox"/> Same-Layer Interaction
IPv4 address format X.X.X.X where each X is a number in the range 0-255	
A network end device, such as a computer or printer	
An intermediate device that forwards packets toward a destination IP address	
The process where lower-level network layers prepend their header to a PDU	
A network within a single geographic area of business location	
A third-party network between a company and its branch office	
Layer-4 (OSI) protocol that acknowledges received segments	

OSI Layer #	OSI Layer Name	TCP Layer Name (current Cisco convention)
1		
2		
3		
4		
5		
6		
7		

	OSI Layer #	TCP Layer Name
Logical Addressing, Routing		
Physical Addressing		
Delivering a stream of data, including error correction by resending missing parts		
Frame		
Segment		
Packet		
Interfacing to a particular physical transport technology		
Path Determination		