TCP/UDP Comparision

	Reliable	Unreliable		
Connection Type	Connection Oriented	Connectionless		
Protocol	TCP	UDP		
Retransmission	Segment retransmission	No windowing, no retransmission		
Sequencing	Yes	No		
Uses	downloads, web pages, file sharing	video streaming voice streaming		

UDP

IP Header	UDP Header	Data Payload			
	-				
src port	And the second s	dst port			
length		checksum			

TCP

IP	Header	Carry Carry	T	C	P	Header	Data Payload
Carried States	src port	ANYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZYZ		12.5	294 2005	Mark Mark Co.	dst port
Sequence number							
Acknowledgement number							
Offset	Reserved	U A R S G K	P S H	R S T	S Y N	F I N	Window
checksum			ur	urgent pointer			
Options							

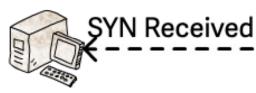
TCP 3-Way Handshake

Send SYN (Seq=1500 CTL=SYN)

SYN Received

Send SYN, ACK

(Seq=2500, ACK =1501) CTL= SYN/ACK)



Established--Send ACK (Seq=1501 ACK=2501, CTL=ACK)

TCP Flow Control

Send SYN (Seq=1500 CTL=SYN)

SYN Received

ŞYN Received

Send SYN, ACK

(Seq=2500, ACK =801) CTL= SYN/ACK)



Established-Send ACK (Seq=801 ACK=2501, CTL=ACK)