

Protocol Headers

8 bytes	6 bytes	6 bytes	2 bytes	0 - 1500 bytes	0 - 46 bytes	4 bytes
Preamble	Destination Ethernet Address	Source Ethernet Address	Type/Length	Data (IP Packet)	Pad	Checksum

Ethernet Frame

0		1		2		3	
Version	IP Header Length	Type of Services	ECN	Total Length			
Identification			DF	MF	Offset		
Time to Live		Protocol		IP Header Checksum			
Source IP Address							
Destination IP Address							
IP Options							
IP Data (UDP Datagram or TCP Segment)							

IP Packet

0		1		2		3					
Source Port				Destination Port							
Sequence Number											
Acknowledgement Number											
Header Length		C	E	U	A	P	R	S	F	Window Size	
		W	R	R	C	S	S	T	I		
		R	E	G	K	H	T	N	I		
TCP Checksum						Urgent Pointer					
TCP Options (up to 40 bytes)											
TCP Data											

TCP Segment

0		1		2		3	
Source Port				Destination Port			
UDP Length				UDP Checksum			
UDP Data							

UDP Datagram