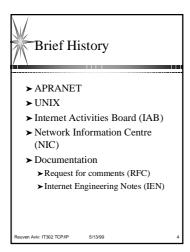
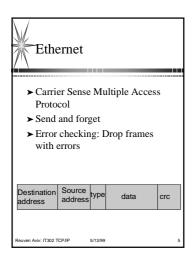
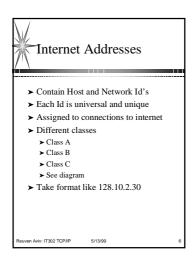


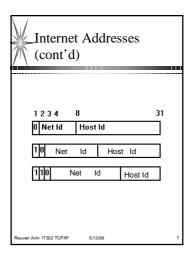
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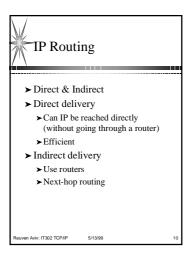


Mapping IP and Physical addresses						ıl
➤ Direct Mapping ➤ ARP ➤ RARP						
	0	8	16	24	31	
		vare Type		Protocol Type		
l	HLEN	PLEN		Operation		
	Sender H	A (Octets 0-3)		Sender IP (0-1)		
l	Send	er IP (2-3)	I	arget HA (0-1)		
	Target HA (2-5)					
1	Target IP (0-3)					
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	Inte	ernet	Proto	ocol			
>	➤ Provides virtual network ➤ Unreliable, Connectionless,						
	Best-effort Packet Transmission Protocol						
0	4	8	16	19	24	31	
Vers	HLEN	Service Type		Total Ler	igth	1	
	ldentif	ication	Flags	Fra	ment Offset		
Time	Time To Live Protocol Header Checksum						
	Source IP address						
	Destination IP address						
	IP Options Padding						
	Data						

						╛	

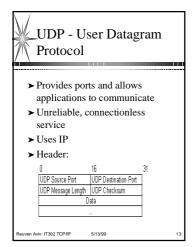
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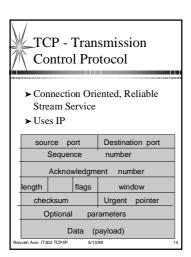


ICMP - Internet Control Message Protocol
➤ Error reporting mechanism ➤ Used by Routers and Hosts ➤ At IP level ➤ Travels in IP datagram
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Laye	ering Commun Software	nication
Application Transport	<- Messages or streams	Software outside OS Software inside OS
Internet	< Transport protocol packets (UDP)	
Network Interface Hardware	— IP datagrams ——————————————————————————————————	Only IP addresses used Physical addresses used
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