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Glossary

• ACK: Acknowledgment

• ARP: Address Resolution Protocol

• ARQ: Automatic Repeat reQuest

• AS: Autonomous System

• BDP: Bandwidth-Delay Product

• BGP: Border Gateway Protocol

• bps: Bits per second

• CAM: Content Addressable Memories

• CDMA: Code Division Multiple Access

• CIDR: Classless Inter-Domain Routing

• CRC: Cyclic Redundancy Check

 CSMA/CA: Carrier Sense Multiple Access / Collision Avoidance

• CSMA/CD: Carrier Sense Multiple Access / Collision Detection

DHCP: Dynamic Host Configuration Protocol

• DNS: Domain Name System

DV: Distance Vector

• FCS: Frame Check Sequence

• FEC: Forward Error Correction

• FDMA: Frequency Division Multiple Access

• HDLC: High-Level Data Link Control

• HTTP: HyperText Transfer Protocol

 ICANN: Internet Corporation for Assigned Names and Numbers

• ICMP: Internet Control Message Protocol

• ID: Identification

• IMAP: Internet Message Access Protocol

• IP: Internet Protocol

• IPv4: IP version 4

• IPv6: IP version 6

• IS-IS: Intermediate System to Intermediate

System

• ISP: Internet Service Provider

• LAN: Local Area Network

• LS: Link State

• MAC: Medium Access Control

• MSS: Maximum Segment Size

• MTU: Maximum Transmission Unit

• NAT: Network Address Translation

NRZ: Non-return-to-Zero

• NRZI: Non-return-to-Zero Inverted

• OSI: Open Systems Interconnection

• OSPF: Open Shortest Path First

• PPP: Point-to-Point Protocol

• QUIC: Quick UDP Internet Connections

• RTT: Round-trip Time

• SFD: Start of Frame Delimiter

• SMG: Statistical Multiplexing Gain

• SMTP: Simple Mail Transfer Protocol

• SSH: Secure Shell

• STP: Spanning Tree Protocol

• TCP: Transmission Control Protocol

• TDMA: Time Division Multiple Access

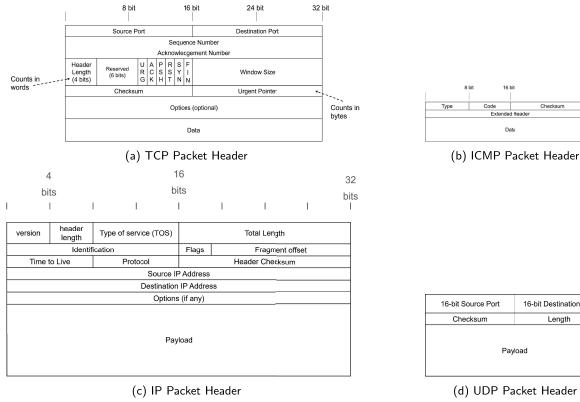
• TOS: Type of Service

• TTL: Time-to-live

• UDP: User Datagram Protocol

• WAN: Wide Area Network

Headers Format:



(d) UDP	Packet Header

Payload

16-bit Destination Port

Length

7	1	6 6	2	46-1500 byt				
bytes	byte	bytes	bytes	bytes	0-1500	0-46	4 byt	es
Preamble	SFD	Destination Address		Туре	Data	Pad	CRC	

(e) Ethernet Packet Header