

Layers of the OSI Model

Physical Layer (Layer 1)

Data Link Layer (Layer 2)

Network Layer (Layer 3)

Transport Layer (Layer 4)

Session Layer (Layer 5)

Presentation Layer (Layer 6)

Application Layer (Layer 7)

Network Layer Functionality

Internetworking Establishes logical connections between nodes in the same or different networks

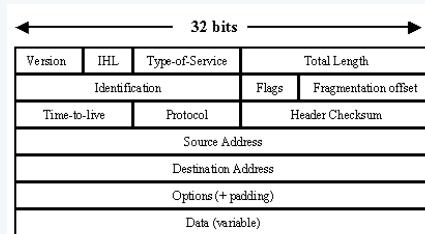
Fragmentation Breaks down packets into the smallest individual data units that transit across various networks

Packetizing Encapsulates the packets received from upper layer protocol and makes new packets

Routing Moves data from one device to another device

Traffic management Manages traffic problems such as switching, routing, and controls the congestion of data packets

Anatomy of a Data Packet



In Network Layer, the Protocol Data Unit (PDU) is a Packet.

Network Layer Protocols

IP Internet Protocol

ICMP Internet Control Message Protocol

ARP Address Resolution Protocol

DDP Datagram Delivery Protocol

IGMP Internet Group Management Protocol



By Arghya Basu (Dr0ngo)
cheatography.com/dr0ngo/

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