

An Autonomous Institution

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF INFORMATION TECHNOLOGY

16IT301 – COMPUTER NETWORKS

II YEAR IV SEM

UNIT 3 – INTERNETWORKING AND ROUTING

TOPIC 20 –DHCP

Dynamic Host Configuration Protocol (DHCP) provides
dynamic address allocation that can be manual or automatic.

how DHCP operates

understand the differences between BOOTP and DHCP

understand the DHCP transition state diagram

ic Address Allocation

amic Address Allocation

ual and Automatic Configuration

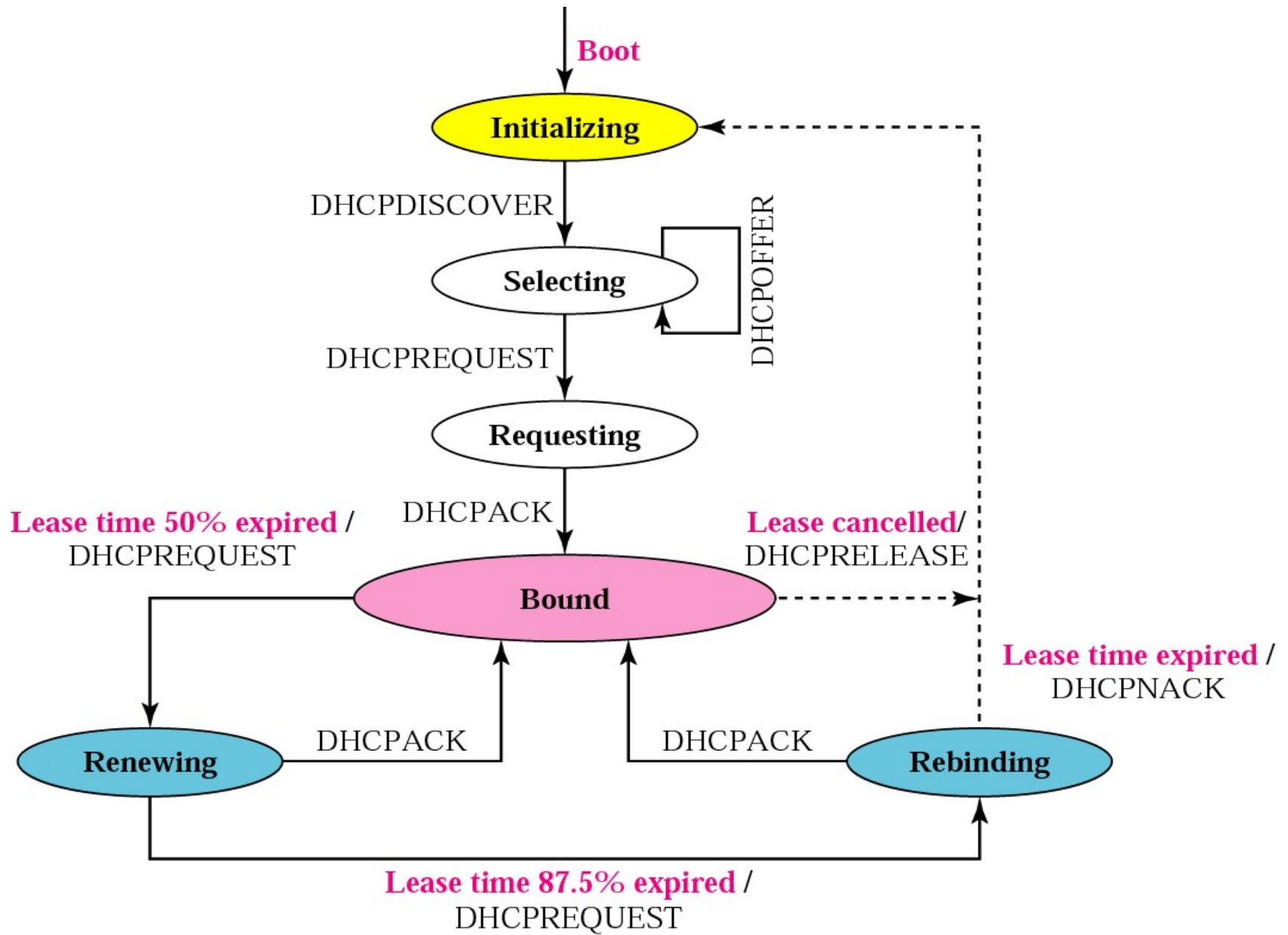
ket Format

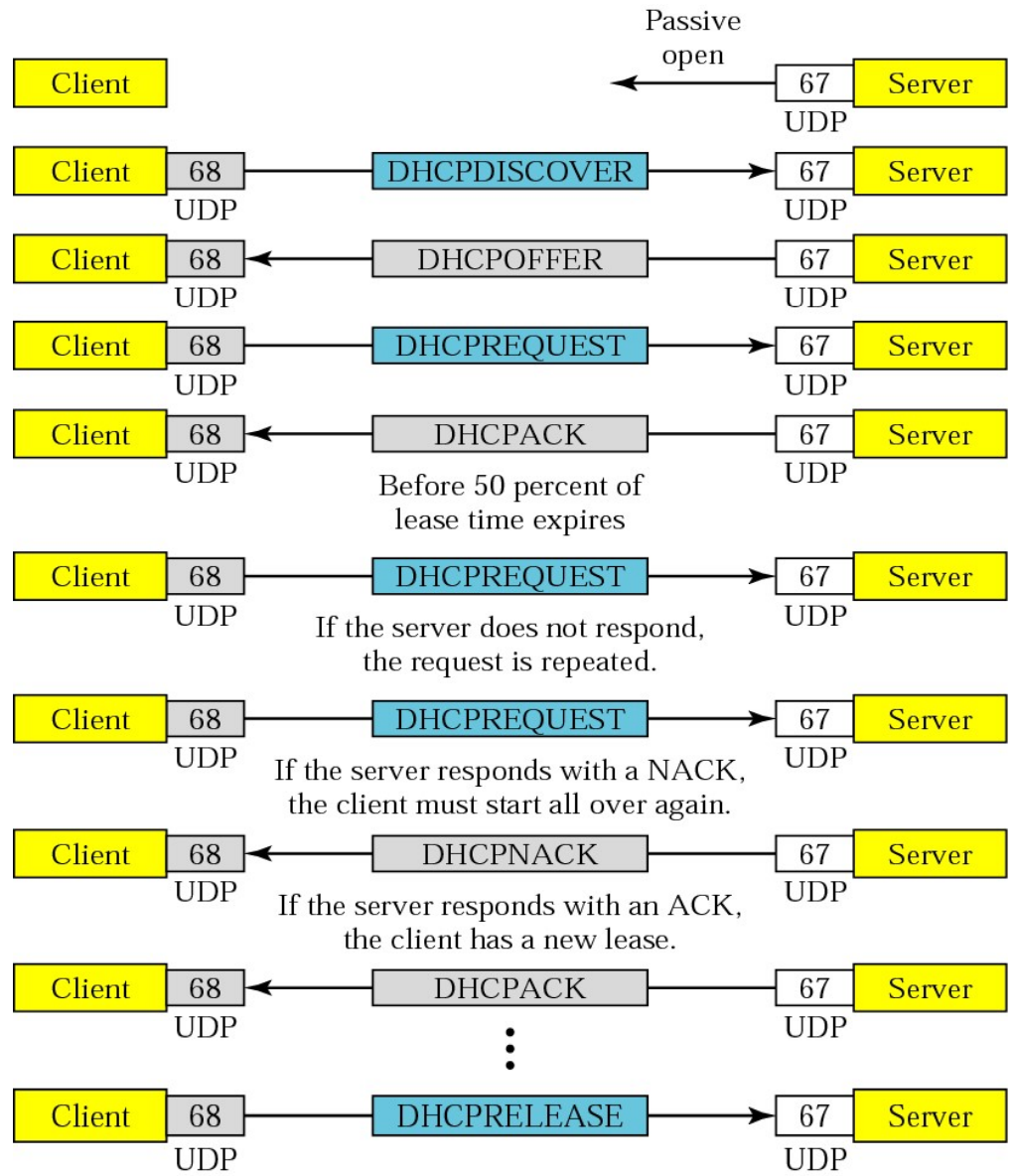
sition States

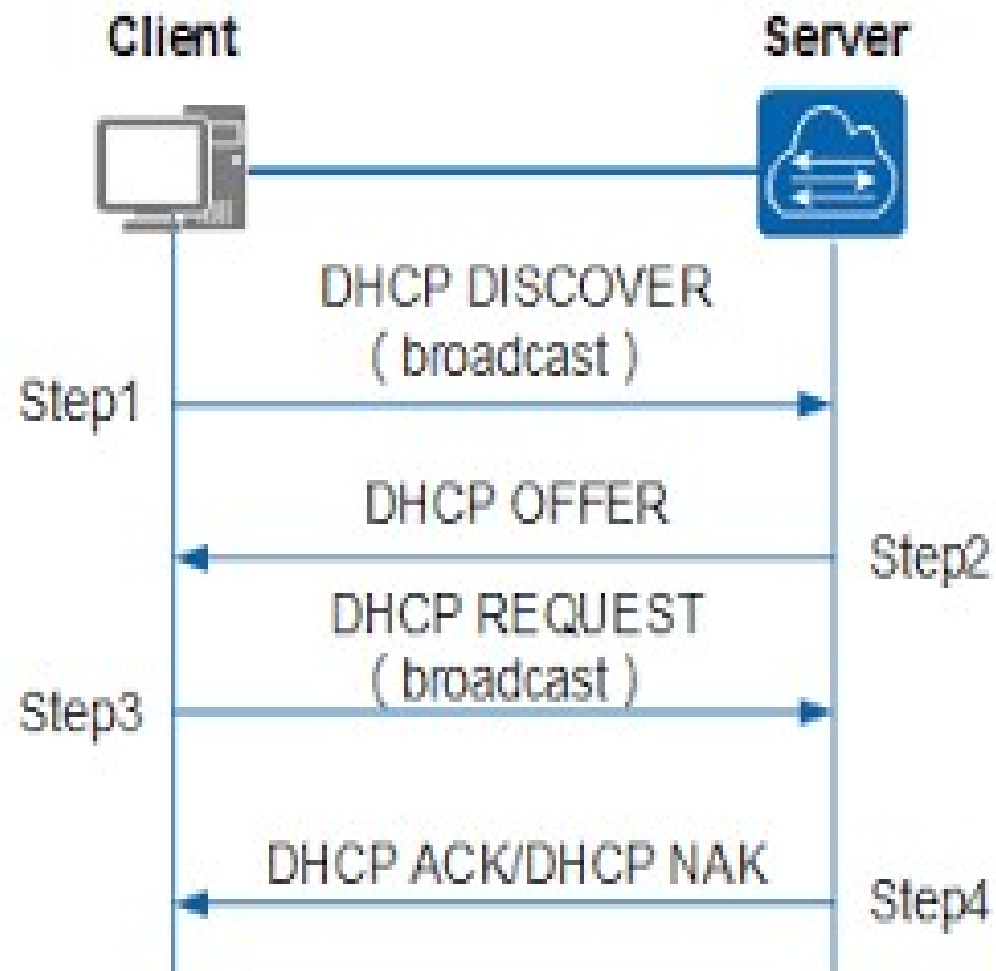
anging Messages

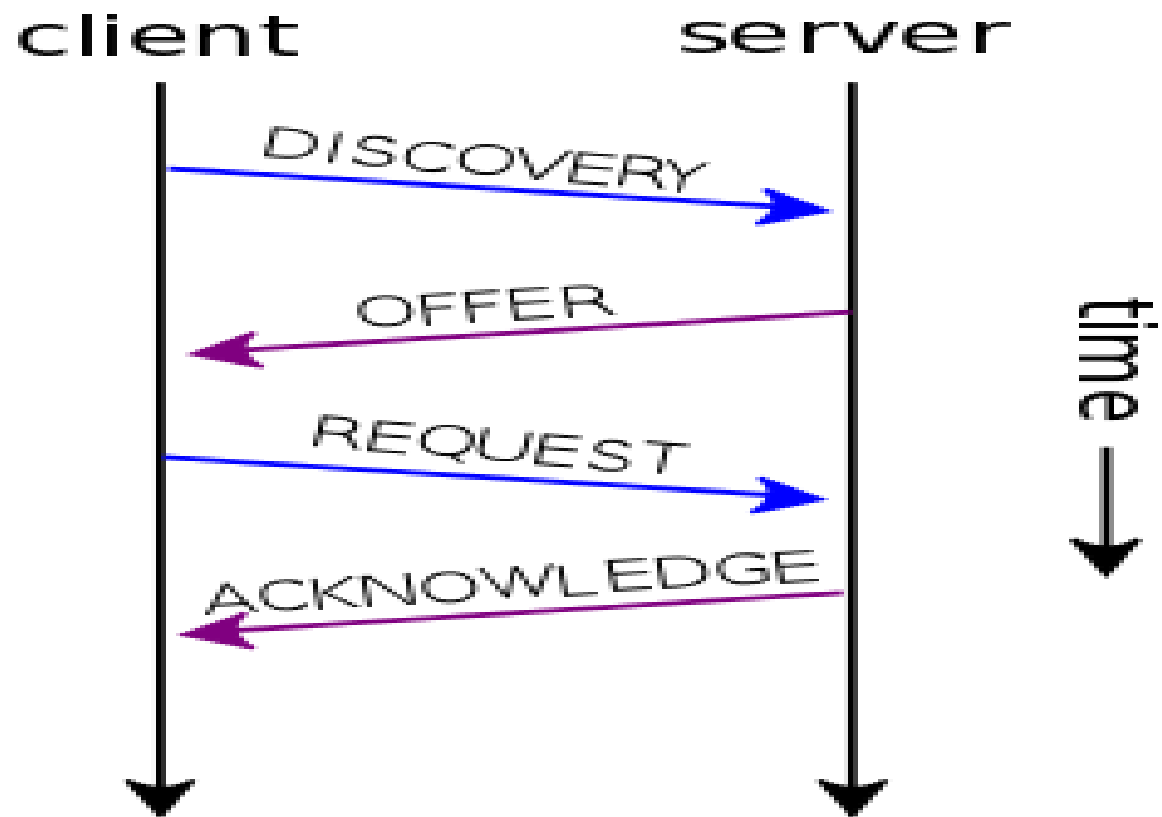
Operation code	Hardware type	Hardware length	Hop count
Transaction ID			
Number of seconds	F	Unused	
Client IP address			
Your IP address			
Server IP address			
Gateway IP address			
Client hardware address (16 bytes)			
Server name (64 bytes)			
Boot file name (128 bytes)			
Options (Variable length)			

<i>Value</i>	<i>Value</i>
1 DHCPDISCOVER	5 DHCPACK
2 DHCPOFFER	6 DHCPNACK
3 DHCPREQUEST	7 DHCPRELEASE
4 DHCPDECLINE	

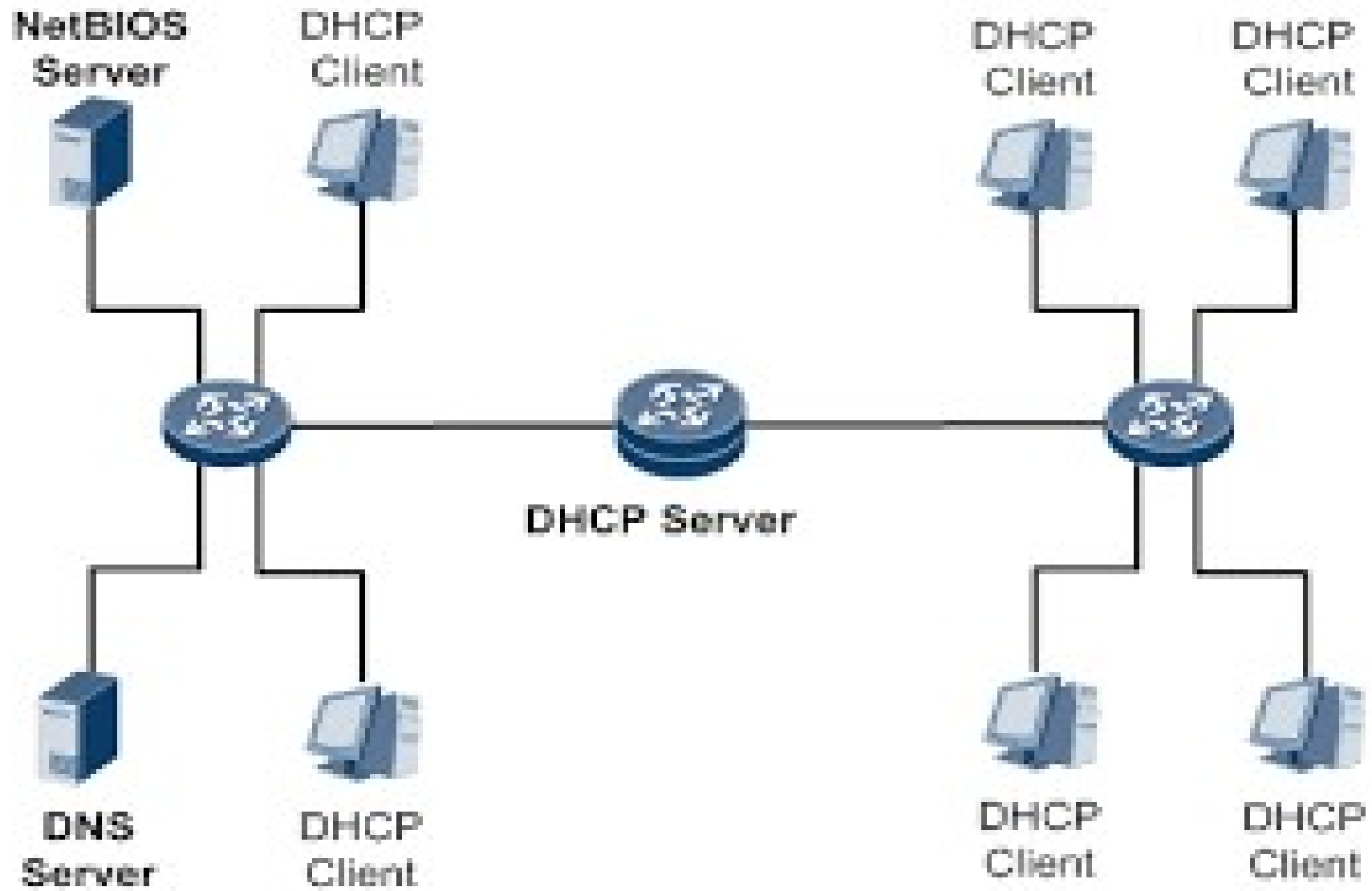








Application



P (dynamic host configuration protocol) provides _____ to the client to obtain an IP address

MAC address

1

one of the mentioned

P is used for _____

v6

v4

both IPv6 and IPv4

one of the mentioned

DHCP server _____

maintains a database of available IP addresses

maintains the information about client configuration parameters

assigns a IP address when receives a request from a client

all of the mentioned

Thank You