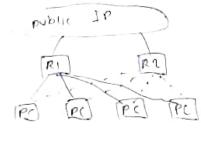
Application layer Psycentation layer sasion layer Transport lagor Netwook laso DLL Physical layer

ARP > provides service to network layor by resolving IP address to MAC addresses It operates asset in netwood layer il

not part of nerwork layer It belongs to DLL since it deals with Ethurnet communication

2) NAT (Network address translation) . This case is still possible with some configuration

- · NAT primarily deals with toomslating private IP addresses to public IP address. - Multiple 700 tros, muliple connection: The company has two (or more) routers, each with own connection to
- the intranet and its own public IP address



3) IsP (Into net scavice poorige)

37 Goanked ISP block 80.70.56.0/21 2(32-81) = 21 = 2048 IP adds asca

71 am g = > (80.70.56.0 -> 60.70.63.255)

(1) Two obganization with 500 oddsusso profix rength

= Each need 512 (next power of 2) 32-loge 512 = 23

Two organization with 250 addresses & 32-1092256 = 24

Proce organization with 50 address of 32-109264 = 126

000 B

80.70.56.0/23 -> 80.70.576.255/23 9 0-9 A 80.70.58.0/23 -> 80.70.59.255/23 9

80.70.60.0/24 7 80.70.60.255/24 y org B 80.70.61.0/24 7 80.70.61.235/24 y

80.70.62.0 /26 -7 80.70.62.63 /26

80.70.62.64/26 -7 80.70.62.127/26

80.70.62-128/26 -> 80.70.62.191 /26

80-70-62-192 -> 80-70-63-255 UNUSEA