

## ospf types of packets

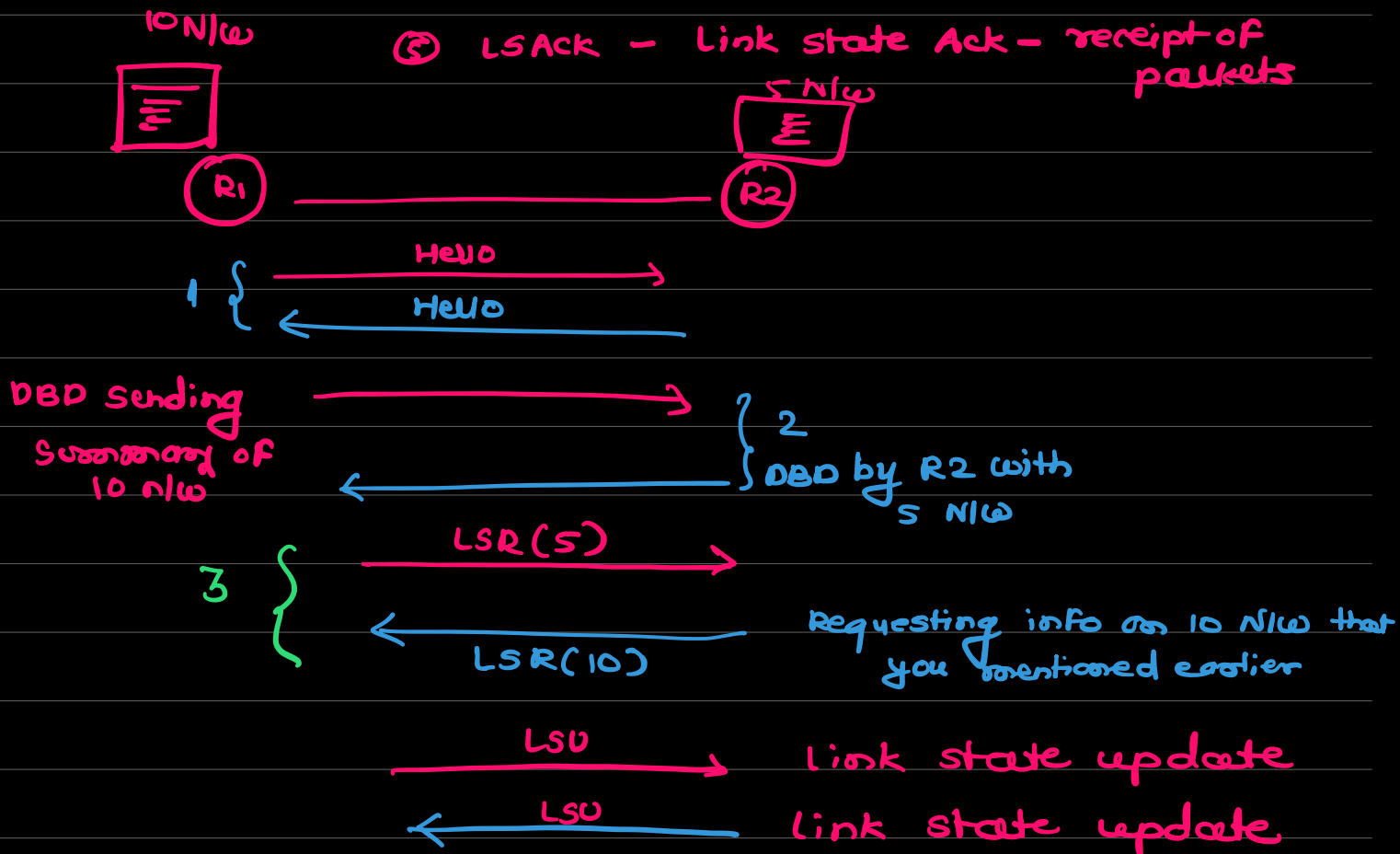
① Hello — Hello timer is 10 sec

② DBD — summary of packets

③ LSR — Link state request

④ LSU — Link state update

⑤ LSACK — Link state Ack — receipt of packets



LSR — so once we send the DBD summary then R1 will say okay you have 5 N/w as you said so can you please send me that networks for me to modify into my table that is done by LSU

② OSPF uses two multicast addresses  
224.0.0.5 → for all

224.0.0.6 → DR/BDR uses this to  
send info with other routers

224.0.0.6 - Used when one link of any OSPF router goes  
down it sends the multicast msg to routers in that case  
DR/BDR will just discard the msgs and only DR will  
acknowledge that this is done through 224.0.0.6

### neighbourship vs adjencies

→ When both routers exchange the Hello packets  
they are in neighbour state

- When they are in full state they are in  
adjency

- DR/BDR election happens in two-way state

④ Every LAN segment or prefixes will have  
DR/BDR selection.

⑤ if packets are coming from different area  
on OSPF in that case on routing table  
it will show as OIA → OSPF inter area.

if from same area then it will be 0

⑥ We have different areas in ospf to

— ① Prevent LSA flooding

② manage ospf from centralized loc<sup>n</sup>

⑦ different LSA's in ospf

① Router LSA - No. of routers in area = router LSA

② Network LSA - No. of DR in area

③ Summary LSA -

④

⑤

## Config in ospf

get show ip route

• and based on that table create a routing path

# router ospf 1

# network ip wildcard area 0

\* show ip ospf neighbour

# show ip ospf database

\* show ip route ospf

To see the neighbour → #show cdp neighbour

⇒ show ip protocols