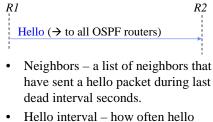


	The c	ommon OS	PF	F message header
Version	Туре	Packet length	•	• Current version of OSPF is 2
	Rout	er ID	•	Area ID
	Are	a ID		• Usually a (sub)network number
Chec		Autientic, type		• • •
		tication	ļ	• 0 = Backbone
	Authentication		•	Authentication type
 Type Type Type Type 	1: Hello 2: Databa 3: Link St	es messages se Description ate Request		 0 = No authentication 1 = Password Limited protection 2 = Cryptographic authentication MD5
• •		ate Update		0 Key ID Length
• Type	5: Link St	ate Ack		Cryptographic sequence number
S-38.2121 / Fall-	-07 / RKa, NB			LS-78

The Hello protocol ensures that links are working and selects the Designated Router and Backup DR



- packets are sent (in seconds).
- Priority the eligibility for the role of designated router.
- A hello packet must be sent in both directions before a link is considered operational

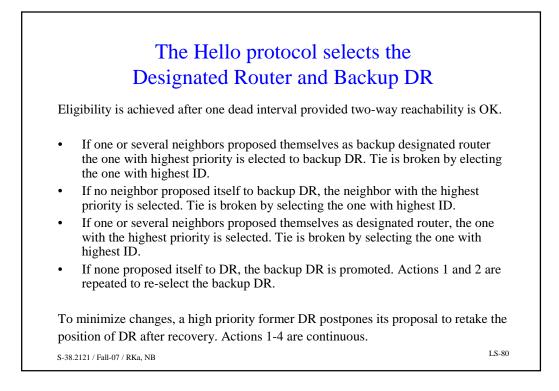
OSPF packet l	neader type	= 1		
· · · · ·	rk mask	_ 1		
Hello interval	Options	Priority		
	nterval	Thomy		
Designated router				
Backup desi		or		
^	ghated four ghbor			
INCIS	gildol			
-				
Neig	ghbor			

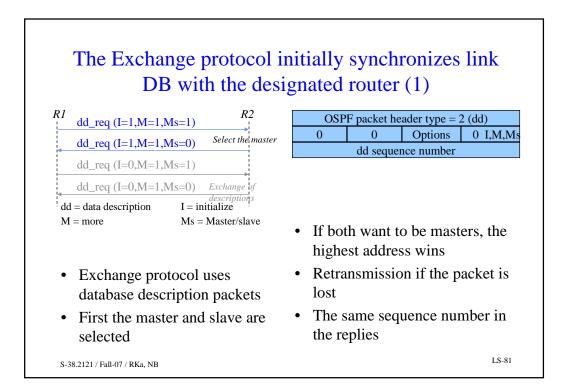
- Options
 - E = external route capability.
 - T = TOS routing capability.
 - M = Multicast capability (MOSPF).

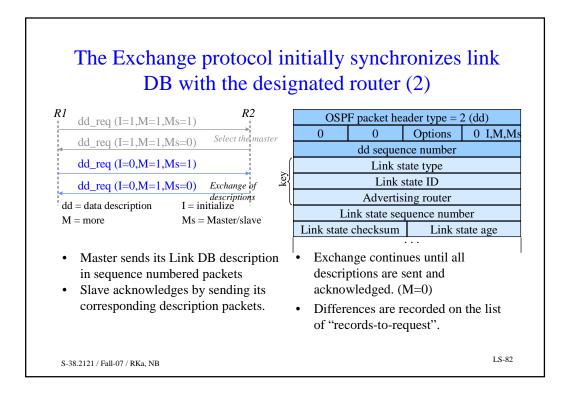
LS-79

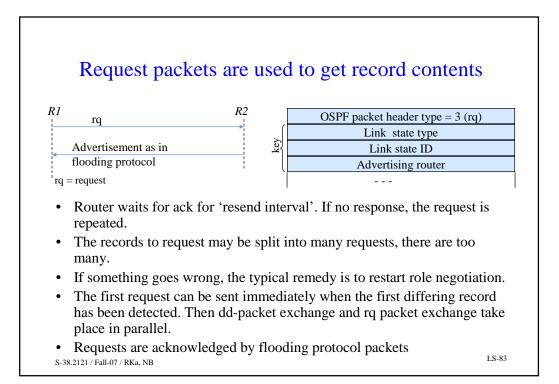
• DR and Backup DR = 0 if not known

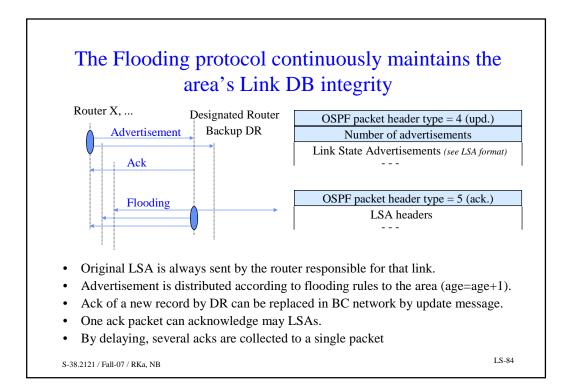
S-38.2121 / Fall-07 / RKa, NB

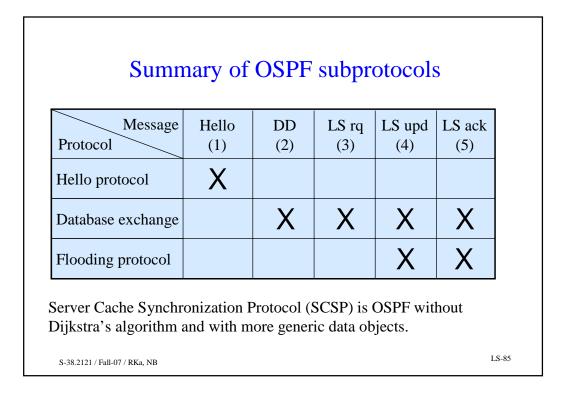


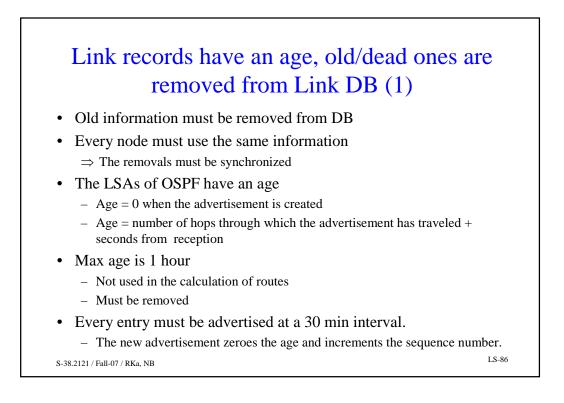


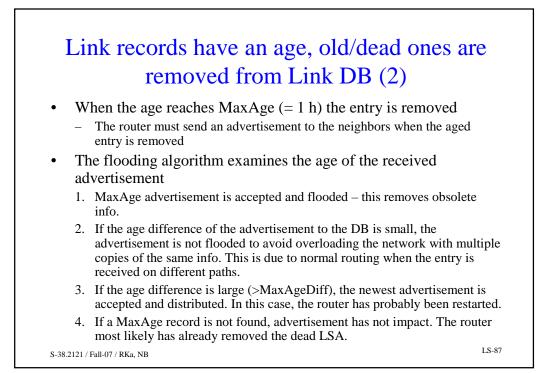












		neouts – LS Age field
Constant	Value	Action of OSPF router
MinLSArrival	1 second	Max rate at which a router will accept updates of any LSA via flooding
MinLSInterval	5 seconds	Max rate at which a router can update an LSA
CheckAge	5 min	Rate to verify an LSA Checksum in DB
MaxAgeDiff	15 min	When Ages differ more than 15 min, they are considered separate. Smaller LS age - newer!
LSRefreshTime	30 min	A Router must refresh any self-originated LSA whose age has reached 30 min.
MaxAge	1 hour	LSA is removed from DB.

