

Recitation 8: Group exercises

1. RSVP

- Why is RSVP needed? When is RSVP useful
- What is a packet classifier?
- What is meant by “soft state” in routers?
- What is jitter control?

2. IPv6

- Why do we need IPv6?
- Can IPv6 be used in vehicles? Discuss.
- Compare IPv4 and IPv6 headers.
- How is demultiplexing done in IPv6?
- How is QoS provided in IPv6?
- When writing an IPv6 address, what can be done with consecutive zeros?
- How is an IPv4 address written in IPv6 form?
- For an IPv6 address, how is the Interface ID derived?
- What is loop-back address in IPv6?
- Why is 2001: DB8 :: /32 a non-routable prefix?
- Which fields of IPv6 Fragment header are used to identify different segments of a packet?
- Compare IPv4 and IPv6 ICMP Echo request/reply headers.
- Why there is no IGMP in IPv6?
- Which record type is used in DNS to specify an IPv6 address?

3. Mobile IP

- Describe the functions of a home and a foreign agent.
- Discuss different ways of discovering an agent.
- What does the field lifetime specify in registration request/reply header?
- What is triangle routing?