Some Design Issues for Discussion

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- RSVP and mobile IP
- reservation error handling
- local repair?
- PATH msg unpacking?

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RSVP and mobile IP tunneling

The problem

- mobile IP: reach the mobile host by encapsulation from the home site
- RSVP messages are visible from sender to home, but encapsulated from home to to mobile host

Question: should we worry about this now?

- If yes, find a willing soul to take the action

2

How to Handle Failed RSVP Reservations

Enumeration of all possibilities: answer two questions

- forward or drop the msg that triggered the error?
- send back an error msg or not?

Two positions:

- answer the above two questions independently
  – forward the msg and send an err back
- forward or send an error msg,one of the two but not both

	send err msg	not send err
forward	X	
drop		X

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Should RSVP Attempt Local Repair?

The problem:

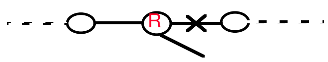
- topological failure → route change → setting up reservation along new route

The question:

- when should RSVP set up the new reservation?

Possible answers:

1. the local router sends new refresh msgs immediately, or
2. the local router informs the end host to send refresh msgs immediately, or
3. do nothing, wait till next refresh cycle



4

Stop Packing up PATH Messges?

The gain from packing PATH msgs

- reduce the number of PATH msgs (but not the bandwidth): one msg per refresh period
- avoid the complexity of forcing the router to sending out IP packets with arbitrary source addresses

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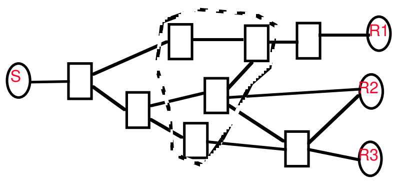
The problem with packing

- may result in extra reservations/confusions when across non-RSVP clouds
- may cause confusions to applications when any of the extra reservations fails



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