Interface & Interaction between RSVP and Routing

Previous talk: longer term

This talk: proposal for short term approach

- **Orientation of routes**
- **Quality of routes**
- **Stability of routes & service** (in absence of failure)
- **Adaptation to topological changes**

Orientation of routes

- **Requirement:** receivers make reservation
- **Today:** routes are from souce to destination, RSVP uses path msgs to lay reverse path state
- **Future:** routes available from either direction

Quality of routes

- **Requirement:** selected paths should have sufficient resources
- **Today:** routes have no quality associated.

  RSVP does not plan to fix this routing problem.
- **Future:** Request and receive quality routes

Stability of routes and services

- **Requirement:** Service should not be disrupted in absence of failure

- **Today:**
  Different opinions regarding the degree of route flapping;
  Consensus from last meeting: do nothing for now

- **Future:** stable routes, smooth switchover to new routes (optional)

Adaptation to topological changes

- **Requirement:** ASAP

- **Today:** RSVP uses timeout to detect failures,then
  (1)notify affected sources to refresh
  (2)teardown the broken path fragments

- **Future:** Routing provides prompt failure notification,
  two options for repaire:
  (1)intermediate routers attempt local repair, or
  (2)intermediate routers notify the ends to refresh