

# Localized RSVP (LRSVP)

`draft-manner-tsvwg-lrsvp-00.txt`

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# History

- draft-manner-lrsvp-00.txt submitted in Spring 2002
- -01, -02, -03, -04 submitted in 2003-2004
- Presented in nsis wg (IETF-54)
- Presented twice in tsvwg (IETF-56, IETF-60)
- Now: draft-manner-tsvwg-lrsvp-00.txt

# Background and Motivation

- End-to-end QoS seldom available
- Backbones often quite fast and reliable
- Access networks, especially mobile and wireless access networks, can often be the bottleneck and point of congestion
- Need some way to set up reservation in the local access network (Eg. in a WLAN access network)

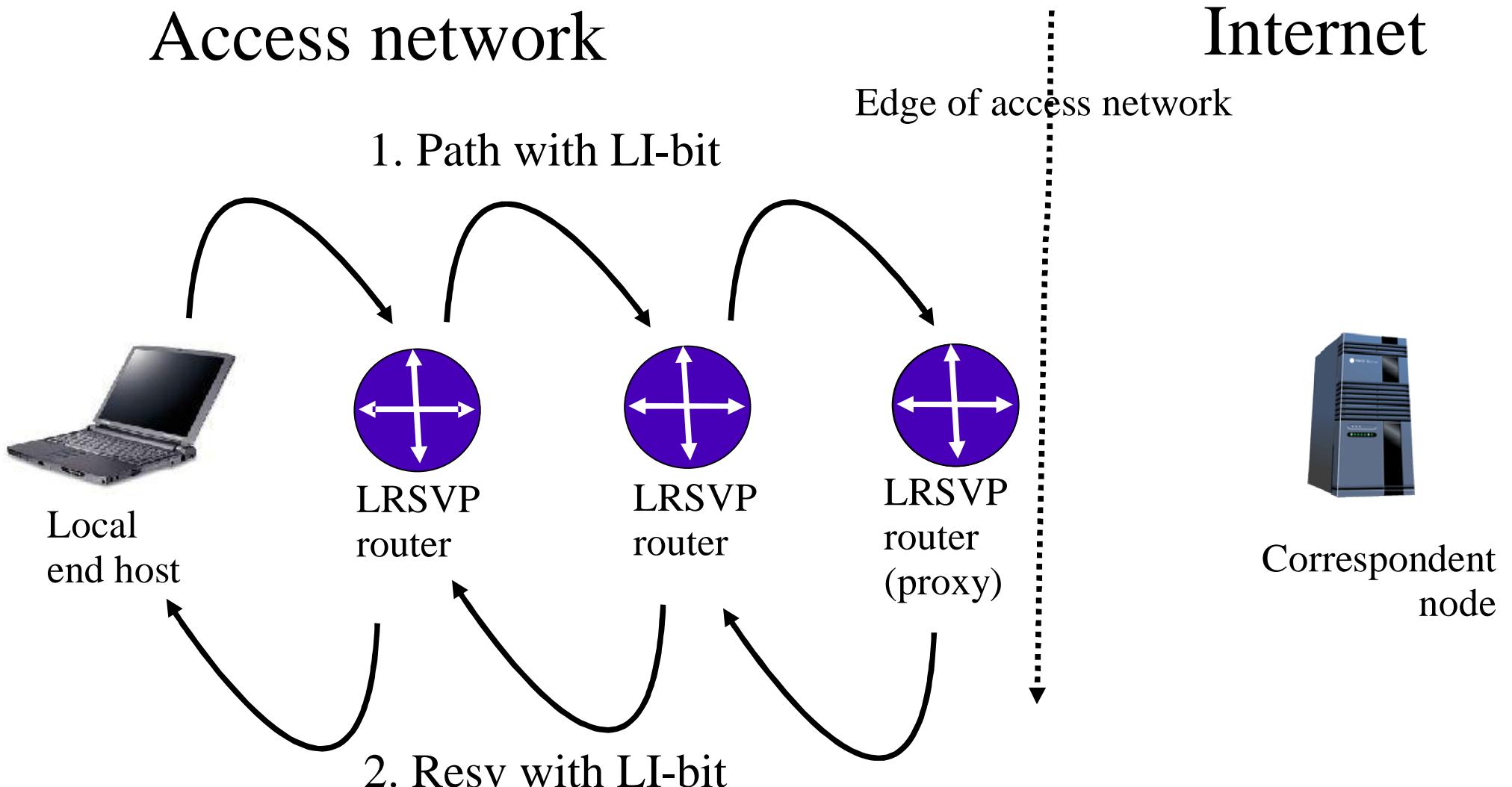
# Solution

- A small enhancement to standard RSVP
- May coexists with standard RSVP: both can be in use at the same time
- A LRSVP proxy terminates the signaling in the local (access) network
  - The "local" area is up to local network administrator

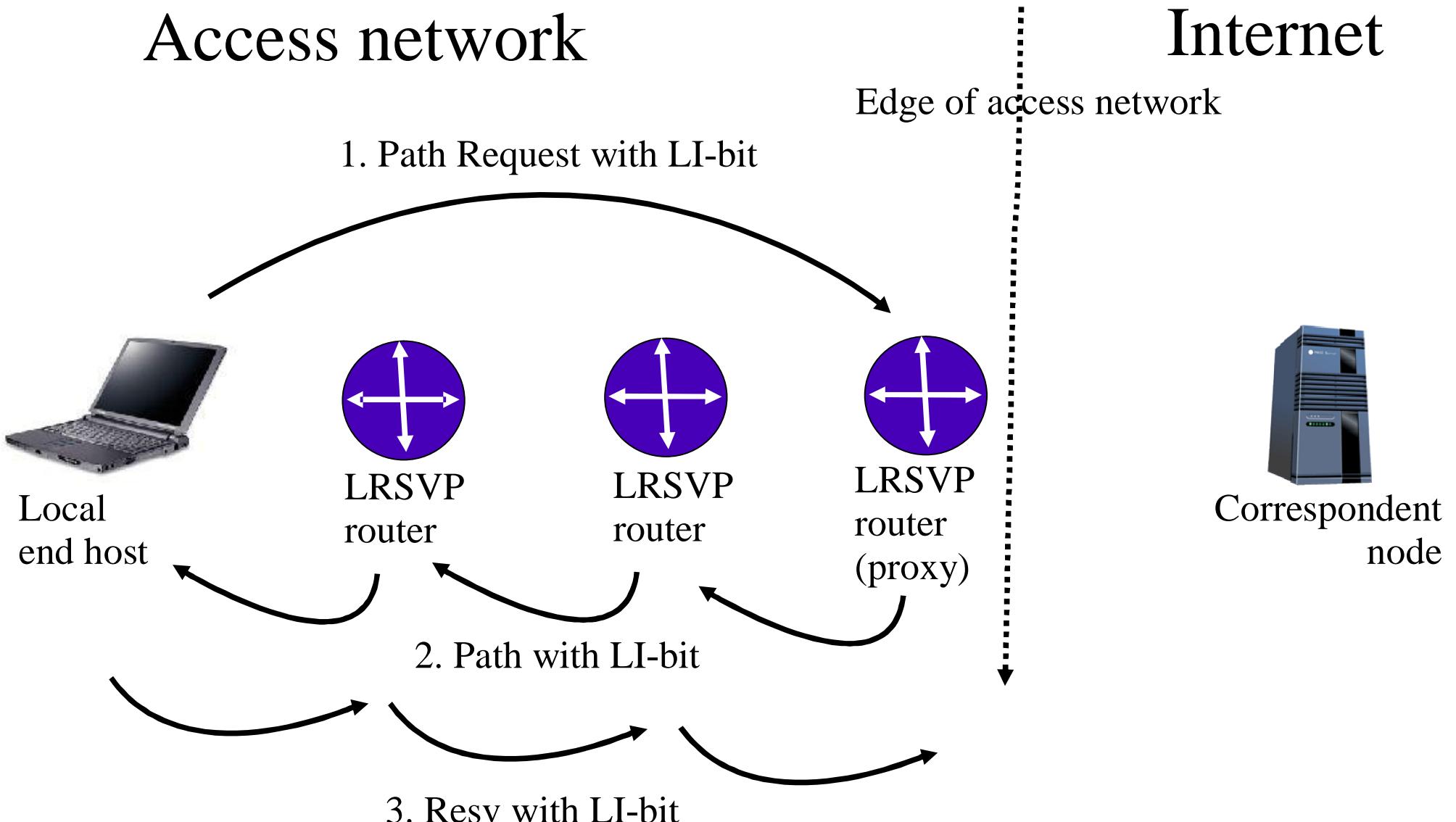
# What Is “Small”?

- 2 bits from unused bits in the Session Object:
  - *Local Indication (LI) bit*
    - separates local and E2E signaling
  - *Expedited Refresh (ER) bit*
    - used to force a Path refresh to go all the way to the mobile end-host
- 2 new message types (no new message structures, though)
  - *PathRequest* and *PathRequestTear* messages to initiate and tear down a downstream resource reservation
- An RSVP router running LRSVP proxy process

# Upstream Reservations



# Downstream Reservations



# What Next?

- The base spec and operation has been stable since -01 (Jan 2003)
- Some minor potential updates:
  - Clarify and simplify operation of downstream reservations (and operation with mobile IP)
  - Add discussion on API requirements?
  - General clean-up
- **Q: Is there any interest to get this kind of idea to be published as an Experimental RFC?**