

# Signaling & Routing Extension for Links with Variable Discrete Bandwidth

draft-long-ccamp-rsvp-te-availability-02  
draft-long-ccamp-ospf-availability-extension-01

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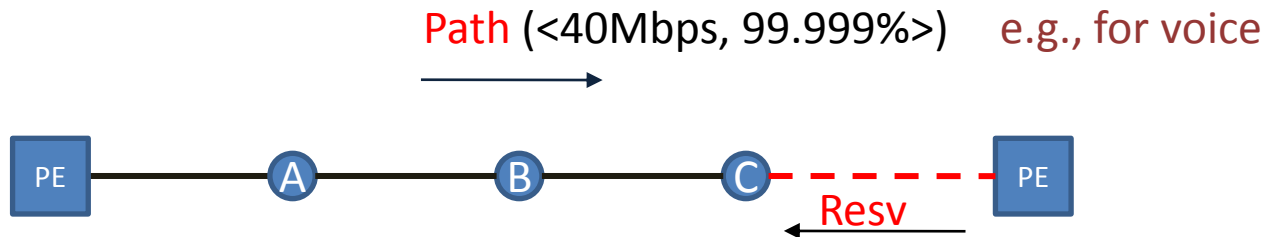
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# Problem and Solution



Availability	Remaining sub-bandwidth
99.999%	50Mbps
99.995%	50Mbps
99.99%	100Mbps

link bandwidth capacity table

- Packet switching network may pass through the links with variable discrete bandwidth
- Availability is used to describe the bandwidth for such links.
- Availability requirement is proposed to consider when setting up an LSP

# Signaling & Routing Extension

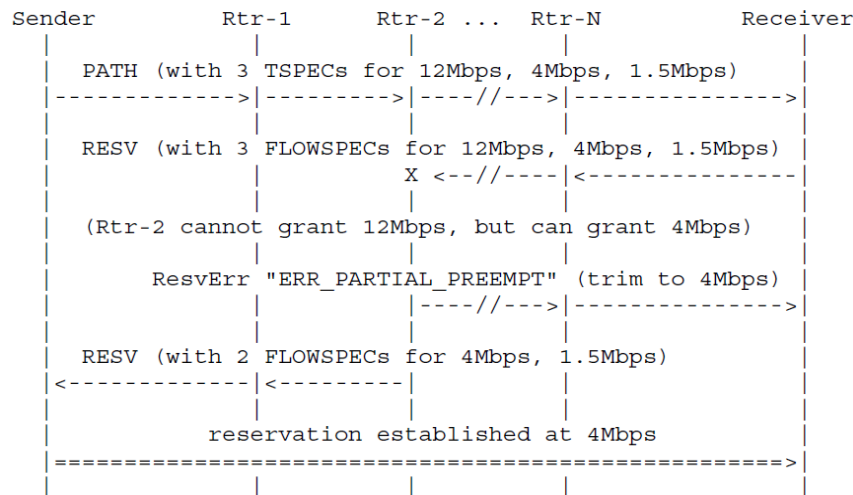
- “draft-long-ccamp-rsvp-te-availability-02” addresses the signaling extension
  - Define an availability flag in the “Profile” filed in bandwidth Profile TLV
  - Define an availability requirement sub-TLV to specify the availability requirement
- “draft-long-ccamp-ospf-availability-extension-01” addresses the routing extension
  - Define an availability information sub-TLV to notify the availability information for path calculation

# Changes

- Addressed comments received on the draft
  - Clarify what if a hop cannot support the availability sub-TLV
  - The drafts were updated to align with existing RFC, RFC6003 and RFC4203.
- Change the error code and the error value
  - error code "Admission Control Error"
  - error value "Requested Bandwidth Unavailable"
- Fill in IANA consideration section
- Text improvements

# Open Discussion

- There was comment on reusing the Multi-TSPEC draft to solve the problem in IETF 87



Multi-TSPEC

- The multi-TSPEC draft seems for different application; not applicable to this scenario

# Next step

- Solicit comments from the group
- Refine the drafts

Thanks