LSP Ping for SR-MPLS Path Segment

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Path Segment Definition

- As specified in [I-D.ietf-spring-mpls-path-segment] (in IESG Evaluation), the Path Segment is defined:
  
  - To uniquely identify an SR-MPLS path on the egress node of the path
  - To be a single label that is assigned from the Segment Routing Local Block of the egress node of an SR-MPLS path
  - To be learned by only the egress node and the ingress node of the associated path. The intermediate nodes of this path will not learn it
Recap of this draft

• This draft defines three LSP Ping Target FEC sub-TLVs for Path Segment:
  - Target FEC SR-MPLS Policy's Path Segment sub-TLV
  - Target FEC SR-MPLS Candidate Path's Path Segment sub-TLV
  - Target FEC SR-MPLS Segment List's Path Segment sub-TLV

• The three Target FEC sub-TLVs are mutual exclusive and they wouldn't be present in one LSP Ping message simultaneously
SR-MPLS Policy's Path Segment sub-TLV

- An SR Policy can be identified through the tuple <headend, color, endpoint>
- When the Path Segment is used to identify an SR Policy, this Target FEC sub-TLV would be included in the LSP Ping message
SR-MPLS Candidate Path's Path Segment sub-TLV

- An SR Candidate Path can be identified through the tuple <headend, color, endpoint, protocol-origin, originator, discriminator>
- When the Path Segment is used to identify an SR Candidate Path, this Target FEC sub-TLV would be included in the LSP Ping message
A Segment List can be identified through the tuple < headend, color, endpoint, protocol-origin, originator, discriminator, segment-list-id >

When the Path Segment is used to identify a Segment List, this Target FEC sub-TLV would be included in the LSP Ping message

When the Path Segment is used to identify multiple Segment Lists, this Target FEC sub-TLV would be included in multiple LSP Ping messages
Next step

• WG Adoption?

Thank you!