

# Advertising SR-MPLS Adj SID Algorithm Information in BGP

draft-peng-idr-segment-routing-te-policy-attr

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# Quick Recap

- Currently, draft-ietf-idr-bgp-sr-segtypes-ext when delivering SR Policy via BGP, SR algorithm can be optionally specified in Segment Sub-TLVs for:
  - SR-MPLS Prefix SID
  - SRv6 Prefix SID
  - SRv6 Adjacency SID
- The algorithm can be also included as part of an Adj-SID advertisement for SR-MPLS in IGP [draft-ietf-lsr-algorithm-related-adjacency-sid].
  - **This document defines new Segment Types to provide optional algorithm for SR-MPLS Adjacency-SIDs when delivering SR Policy via BGP.**
  - **It didn't pass the WG adoption call because there has not been enough interest on the list.**

# Main Updates & Discussions

Thank Ketan Talaulikar, Nat Kao, Zhenqiang Li and Gyan Mishra for their helpful comments and suggestions !

## Updates

- Gyan Mishra has joined as a co-author.
- References to other documents have been corrected.

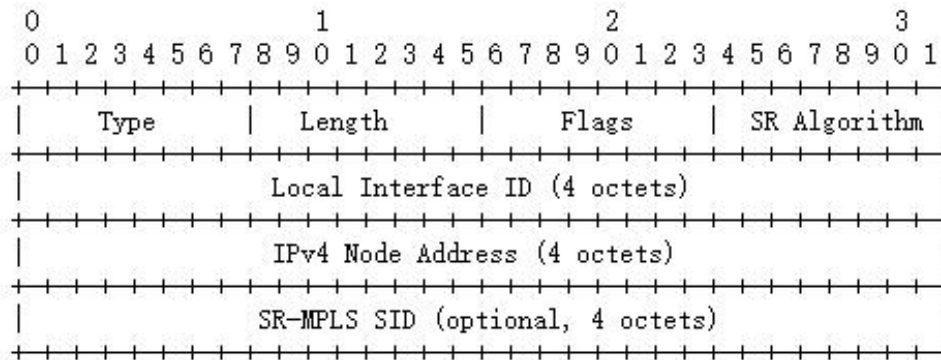
## Discussions

- Are the remote node address and interface ID required for segment type L(IPv4 unnumbered link) ?
- Not necessary.
  - an IPv4 unnumbered link has to be a point to point link
  - to keep aligned with segment types in SR Policy architecture[RFC9256] and draft-ietf-idr-bgp-sr-segtypes-ext

# SR-MPLS Adjacency with Optional Algorithm

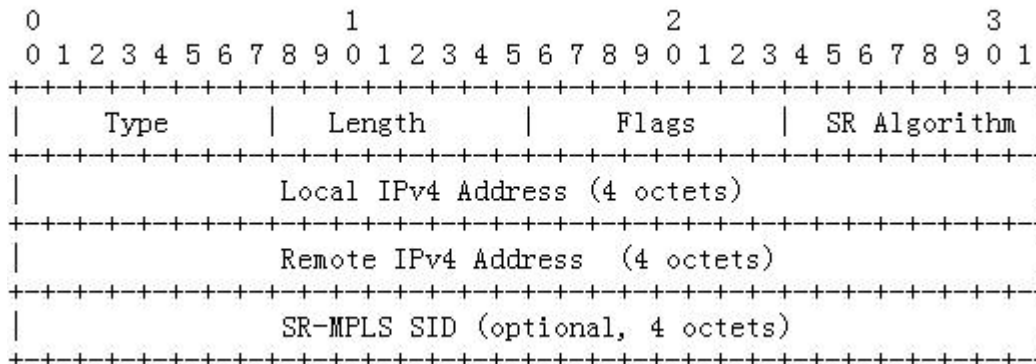
## New Segment sub-TLVs = Existing sub-TLVs + Algorithm

- Type L: IPv4 Prefix with Local Interface ID with optional SR Algorithm for SR-MPLS



Type E +  
Algorithm

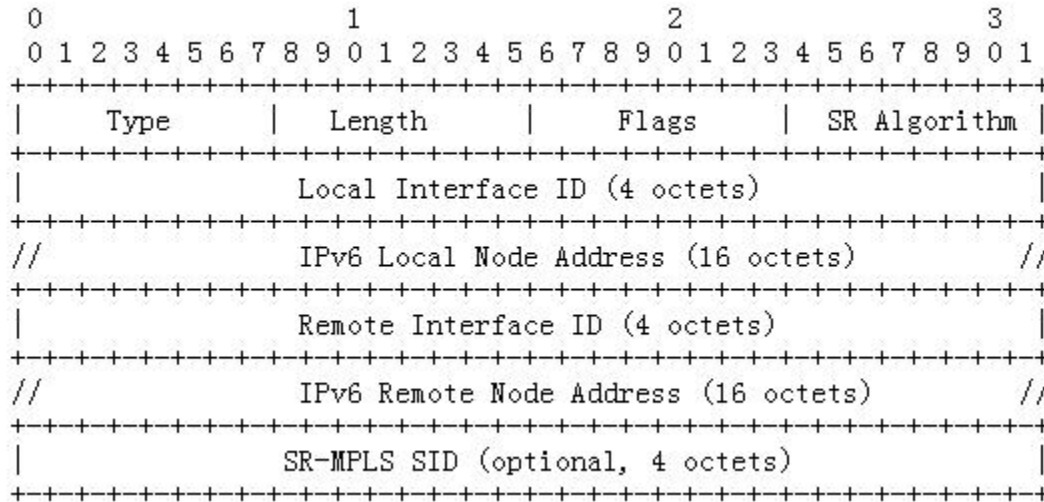
- Type M: IPv4 Addresses for link endpoints as Local, Remote pair with optional SR Algorithm for SR-MPLS



Type F +  
Algorithm

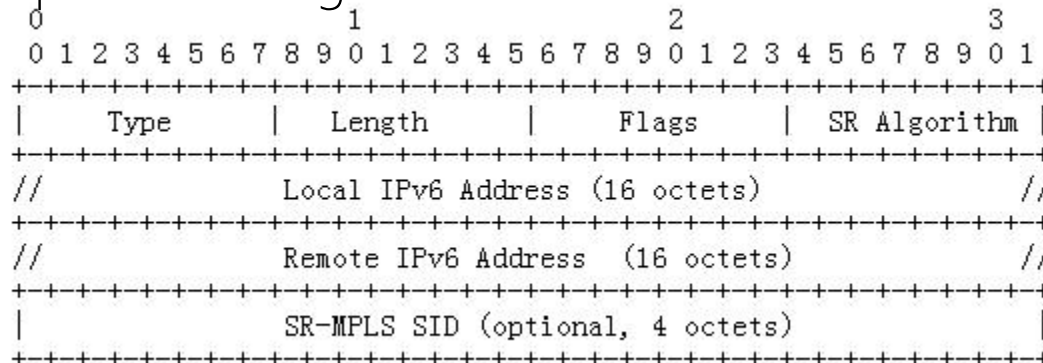
# SR-MPLS Adjacency with Optional Algorithm

- Type N: IPv6 Node Addresses and Interface ID for link endpoints as Local, Remote pair, with optional SR Algorithm for SR-MPLS



Type G +  
Algorithm

- Type O: IPv6 Addresses for link endpoints as Local, Remote pair, with optional SR Algorithm for SR-MPLS



Type H +  
Algorithm

# Next Steps

- Request for more interest, review and comments
- 2nd WG Adoption

Thank You !