Extensions to BGP for SR Path Ingress Protection

draft-chen-idr-sr-ingress-protection-01

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Overview

Info for SR path such as SID list etc.

Info for Backup SR path from backup ingress to egress + Info for protecting Ingress in sub-TLV (SR Path Ingress Protection sub-TLV)
Updates to Previous version
(Extensions to SR Policy Encoding)

Tunnel Encaps Attribute contains a Tunnel Encapsulation Attribute TLV of type 15 (i.e., SR Policy TLV), which comprises a number of sub-TLVs such as Binding SID sub-TLV, preference sub-TLV, Segment List sub-TLV.

Tunnel Encaps Attribute (23)
- Tunnel Type (15): **SR Policy**
  - Preference sub-TLV
  - Binding SID sub-TLV
  - Explicit NULL Label Policy (ENLP) sub-TLV
  - Priority sub-TLV
  - Policy Name sub-TLV
  - SR Path Ingress Protection sub-TLV
    - Primary Ingress sub-TLV
    - Service sub-TLV
    - Traffic Description sub-TLV
  - Segment List sub-TLV
    - Weight sub-TLV
    - Segment sub-TLV
    - Segment sub-TLV
    - ...
    - ...

Create SR backup path to protect primary ingress and carry traffic for a service.
Traffic Description Sub-TLVs

A Traffic Description Sub-TLV describes the traffic to be imported into a backup SR path.

IPv4/6 FEC sub-TLV

Interface Index sub-TLV
Next Step

Comments