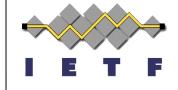
Inter-AS OAM for SR Networks IETF 106, Singapore

Shraddha Hegde, Juniper Networks Kapil Arora, Juniper Networks Samson Ninan, Juniper Networks Mukul Srivastava, Juniper Networks Nagendra Kumar, Zafar Ali, Carlos Pignataro, Cisco Systems

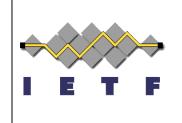




Agenda

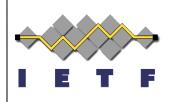
- Updates from Last version
 - Changes to Reverse Path sub TLV
 - Dynamically building Reverse Path
- Ask & Next step

Updates from previous version

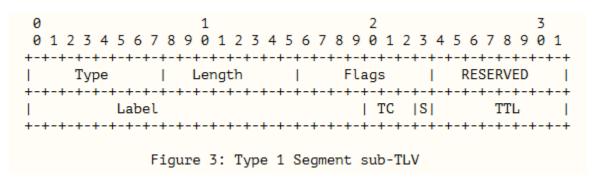


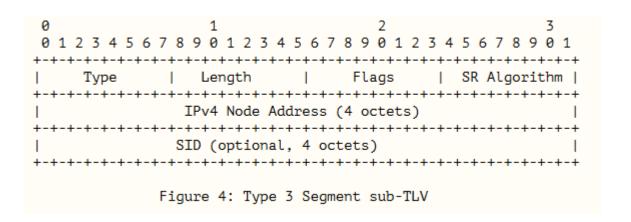
- New Segment sub-TLV to generalize the segment to Label or IPV4/IPv6 address and SID
- Referring to SR Policy List Sub-TLVs" defined in [I-D.ietf-idr-segment-routing-te-policy])

Updates from previous version

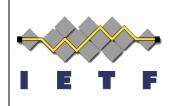


Segment Sub TLV





Updates from previous version

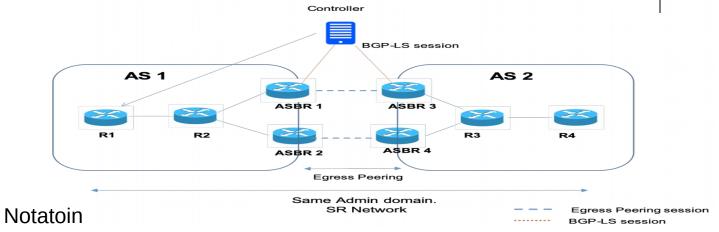


Segment Sub TLV

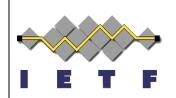
SRv6 has been moved out of the scope of this document. This draft will be renamed and submitted to MPLS WG

Dynamically Building Reverse Path



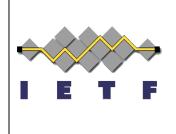


- Node SIDs : N-R1 etc.
- Adjacency SIDs : Adj-R1-R2 etc.
- EPE SIDS : EPE-ASBR1-ASBR3 etc.
- When ASBR3 receives an MPLS OAM packet from ASBR1
 - It knows the packet has been received from its trusted inter-AS peer
 - Builds Reverse Path by stacking
 - Its own Node-SID (N-ASBR3)
 - EPE SID (EPE-ASBR3-ASBR1)
 - Sends Reverse Path Segment TLV in "Downstream Detailed Mapping TLV"



Summary & Next steps

- Proposal provides simple solution for Inter-AS SR OAM
- Request MPLS WG accept it as WG document



Thank you