SRH Reduction for SRv6 End.M.GTP6.E Behavior

draft-ietf-dmm-srv6-gtp6e-reduced-00

IETF123 Madrid, dmm Working Group

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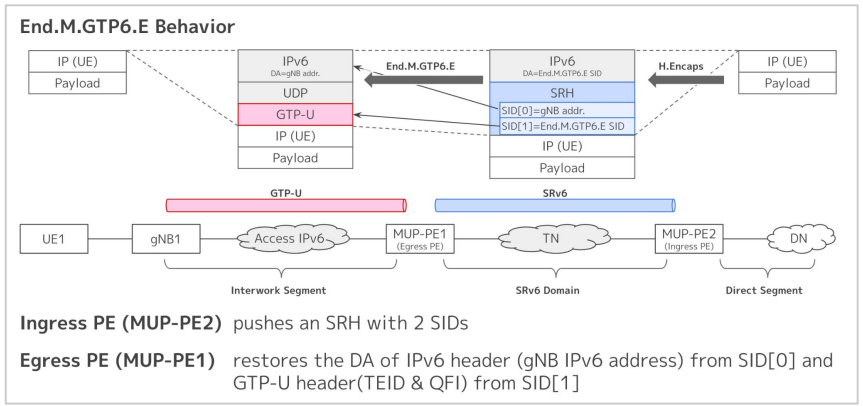
Recap: End.M.GTP6.E.Red

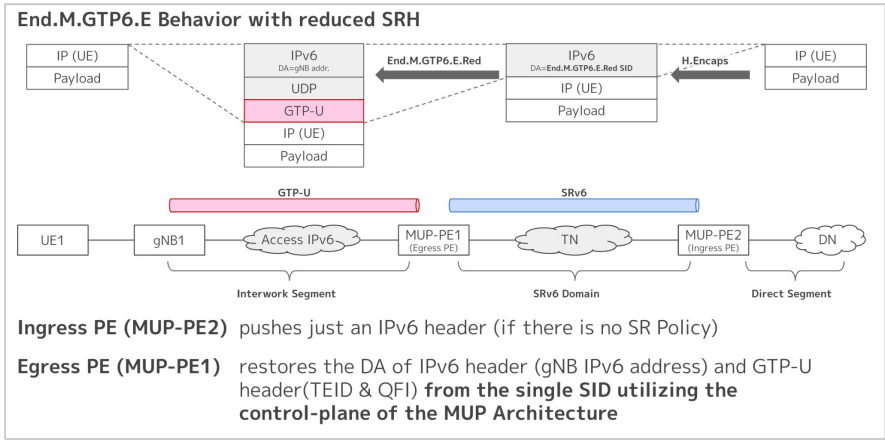
End.M.GTP6.E.Red makes End.M.GTP6.E hardware-friendly

- SRv6 MUP [RFC9433] defines End.M.GTP6.E to interwork with IPv6 gNB.
- End.M.GTP6.E requires 2 SIDs in SRH and this is not unfamiliar or insufficient with current hardware pipelines.
- End.M.GTP6.E.Red compress 2 SIDs in a single SID by utilizing ISD (Interwork Segment Discovery) Routes of BGP-MUP SAFI [I-D.mpmz-bess-mup-safi].



Ingress PE (MUP-PE2) pushes an SRH with 2 SIDs

Egress PE (MUP-PE1) restores the DA of IPv6 header (gNB IPv6 address) from SID[0] and GTP-U header(TEID & QFI) from SID[1]



Ingress PE (MUP-PE2) pushes just an IPv6 header (if there is no SR Policy)

Egress PE (MUP-PE1) restores the DA of IPv6 header (gNB IPv6 address) and GTP-U header(TEID & QFI) **from the single SID utilizing the control-plane of the MUP Architecture**

Updates

Completed WG adoption call

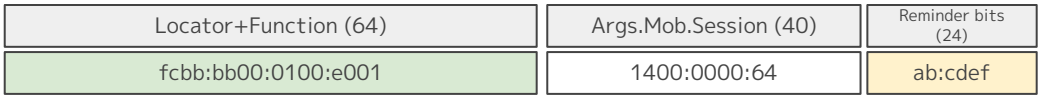
- Thank you chairs and members for the review

Status

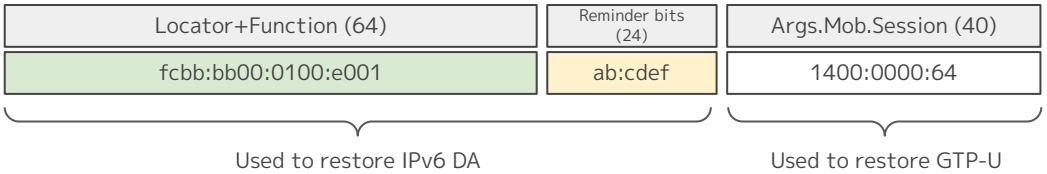
Final discussions on the design are underway among the authors.

- The order of bit field

Current design (derives from End.GTP.6.E)



Suggested design (End.M.GTP4.E-like)



Next Step

RFC (Informational)

- once the discussions are closed