SRv6-SID-Related Information Validation

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Motivation

SRv6 SIDs can be related with extra information besides basic forwarding semantics, but compared with MPLS LSP ping , there's only ping/trace for dataplane connection check for SRv6.

Info Related with both MPLS Labels and SRv6 SIDs	MPLS/SR-MPLS Validation Mechanism	SRv6 Validation Mechanism
L2/L3 VPN services	RFC8029	?
EVPN Services	RFC9489	
SR Path Information(Path Segment)	draft-ietf-mpls-spring-lsp-ping-path-sid	
IGP-Adjacency(Adj Segment)	RFC8287	
BGP Peer (EPE SID)	RFC9703	
IGP SID Algorithm	draft-ali-mpls-algo-mt-oam	
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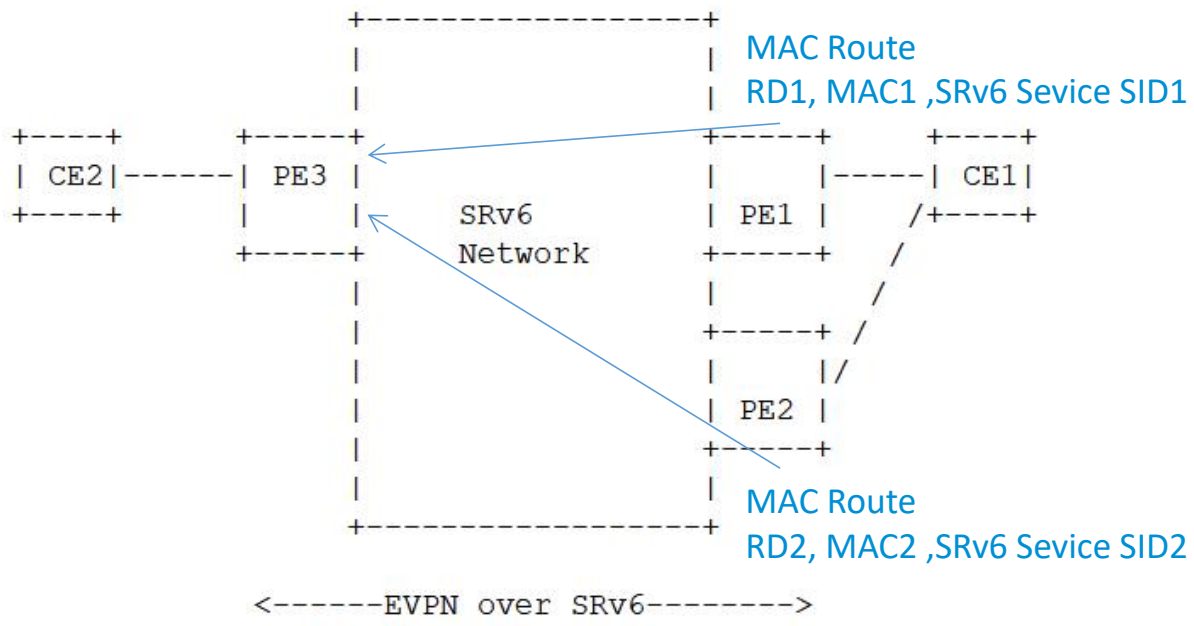
Is Validation Mechanism for SRv6 Required?

Maybe for data plane failure detection in SRv6 VPN/EVPN scenario



CE1 dual-homed to PE1 and PE2
PE1 and PE2 both announced MAC route, with different SRv6 service SIDs

On PE3, an operator wants to perform connectivity check for the address MAC1 related with SRv6 service SID1 on PE1.

Next Steps

- **Welcome feedback and comments!**
  - Are there potential requirements of SRv6-SID-relation information in operators' network?

- **Related work**
  - draft-liu-6man-icmp-verification

Thank You !