

# SRv6 Point-to-Multipoint Path

draft-chen-pim-srv6-p2mp-path-01

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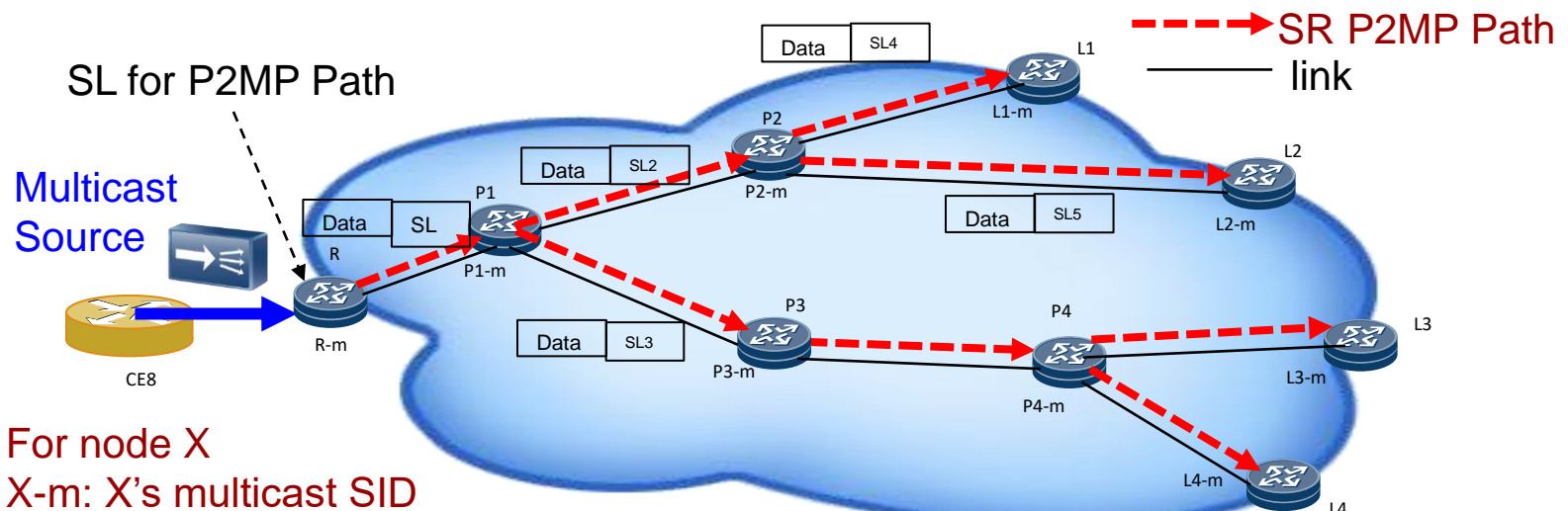
# Overview

## Updates to Previous Version

- Editorial/format changes
- Add some details about behavior on
  - Ingress node
  - Transit node

# Behavior on Ingress Node

- Given SID List (SL) representing SR P2MP path/tree or sub-tree  
e.g., SL = <P1-m, P2-m, P3-m, L1-m, L2-m, P4-m, L3-m, L4-m>
- Ingress R executes H.Encaps for input SL and Pkt0/Data as payload, to push SL into packet Pkt' (in SRH, DA) and have packet Pkt' (Pkt' = H.Encaps(SL, Pkt0) is short for this)  
Ingress R sends Pkt' to next hop P1  
e.g., Pkt' = (SA=R, DA=P1-m)(<P2-m, P3-m, L1-m, L2-m, P4-m, L3-m, L4-m> ; SL=7)Pkt0  
is sent to next hop P1



# Behavior on Transit Node

- Each transit copies Pkt0/Data, obtains SL<sub>i</sub> for next hop i from SL in Pkt', executes H.Encaps to have Pkt<sub>i</sub> and sends Pkt<sub>i</sub> to next hop i

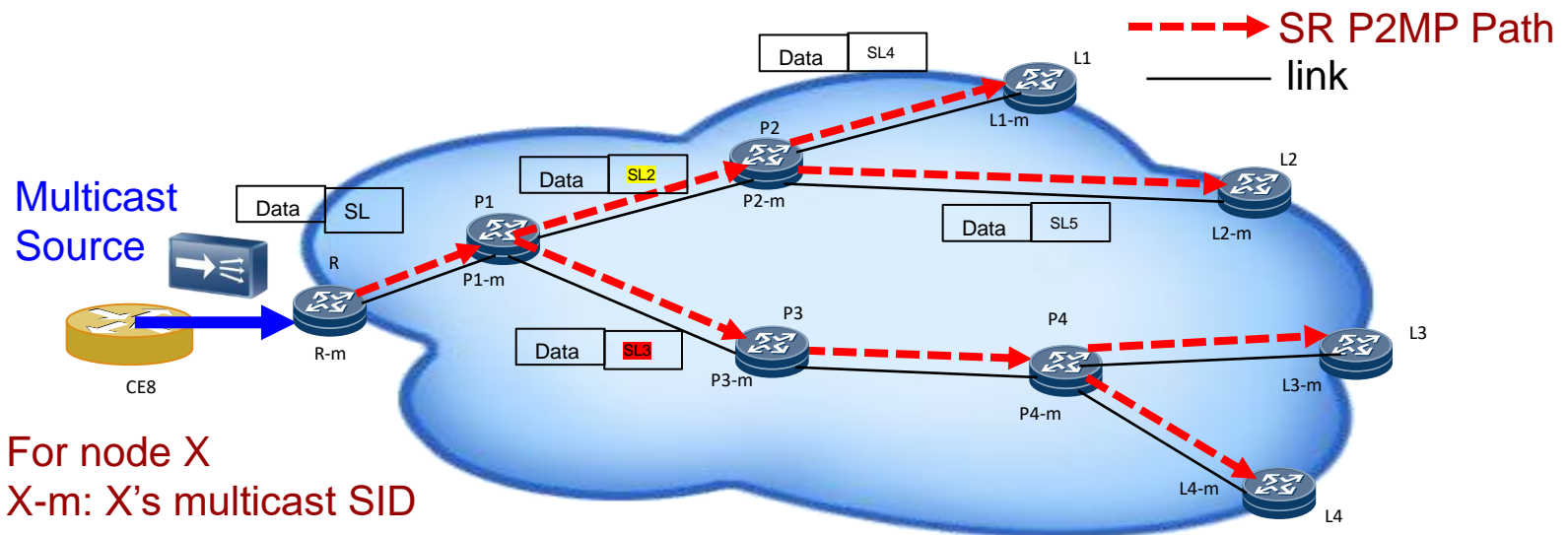
e.g., P1 receives

Pkt' = (SA=R, DA=P1-m) ( < **P2-m**, **P3-m**, L1-m, L2-m, **P4-m**, L3-m, L4-m >; SL=7) Pkt0

SL2 for sub-tree from P2
SL3 for sub-tree from P3

↷ 2 branches

- P1 duplicates Pkt0 for next hops P2 and P3, obtains **SL2** and **SL3**  
 sends PktP2 = H.Encaps(**SL2**, Pkt0) to P2, PktP3 = H.Encaps(**SL3**, Pkt0) to P3  
 PktP2=(SA=P1, DA = **P2-m**)(< L1-m, L2-m >; SL=2)Pkt0  
 PktP3=(SA=P1, DA=**P3-m**)(< **P4-m**, L3-m, L4-m >; SL=3)Pkt0



# Next

## Request for Adoption