

Path Segment used in SR and MPLS Interworking

draft-xiong-mpls-path-segment-sr-mpls-interworking-01.txt

Quan Xiong(ZTE)

Greg Mirsky(ZTE)

Weiqiang Cheng(China Mobile)

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Path Segment

- **Path Segment defined in [ietf-spring-mpls-path-segment] has been proposed and adopted in Spring WG**
 - ✓ Path Segment (Path ID/PSID) is introduced for SR path identification.
 - Performance measurement
 - Bidirectional path correlation
 - End-to-end Path Protection
- **Path Segment MAY be used to provide end-to-end bidirectional VPN service in SR and MPLS interworking scenario.**
 - ✓ path correlation MAY be used to achieve the path stitching.
 - Bidirectional Path Correlation
 - Inter-domain Path Correlation
 - ✓ Path Segment MAY be defined to identify an MPLS-TE tunnel and MPLS-TE label list.

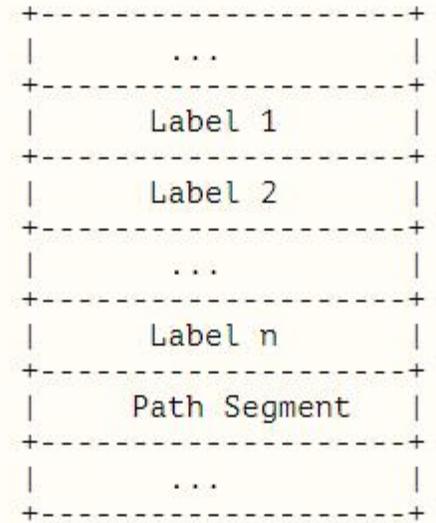
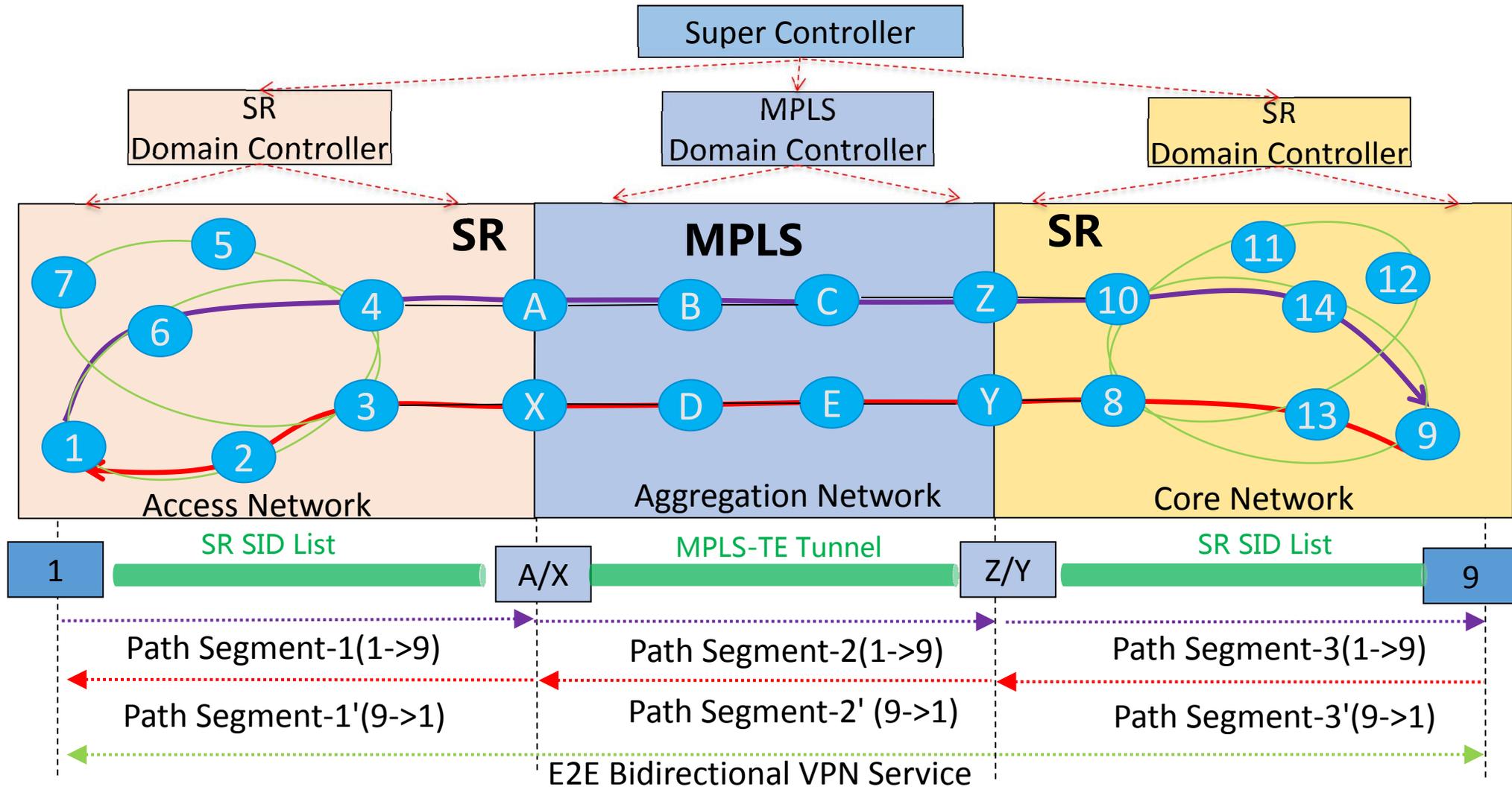


Figure 1: Label Stack with Path Segment

SR and MPLS Interworking with Path Segment



- ✓ Path Bidirectional correlation: Node 1 (1 and 1') and 9 (3 and 3')
- ✓ Path Inter-domain correlation: Node A (1 and 2)/X (2' and 1'), Z (2 and 3) and Y (3' and 2')

Comments from last meeting

- Clarification
 - In the nesting model, the BSID and path segment can be combined to achieve the inter-domain stitching and path monitoring.
 - In the stitching model, the stitching of path segments could be used to achieve the inter-domain stitching and path monitoring.
 - The SR and MPLS domains may be deployed incrementally and independently and the stitching model may be appropriate for this scenario.
- Comparison with BSID
 - The BSID could be bound to a SID List or selected path and used to stitch the service across multiple domains.
 - All of the BSIDs MUST be provided and pushed onto the label stack at the headend but not all of them are popped at an edge node.

Next Step

- Further updates as per WG feedback.
- Comments and discussions are very welcome!

Thank you!