

Path Segment used in SR and MPLS Interworking

draft-xiong-mpls-path-segment-sr-mpls-interworking-02.txt

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IETF#109, MPLS WG, 2020

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 (PM)
 - Bidirectional path correlation
 - End-to-end Path Protection
- ✓ End-to-end Path Segment MAY be used to support end-to-end bidirectional path in SR and MPLS interworking scenario.
 - ✓ Nesting of Path Segments
 - ✓ Stitching of Path Segments

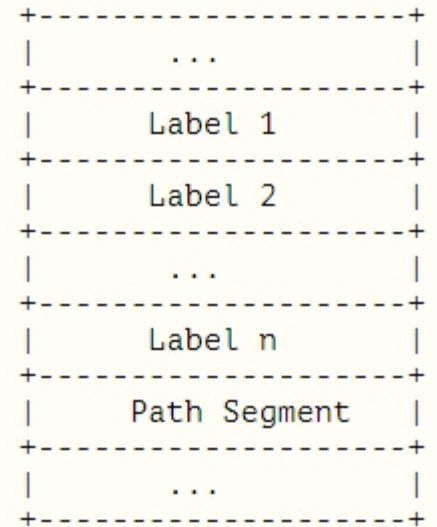
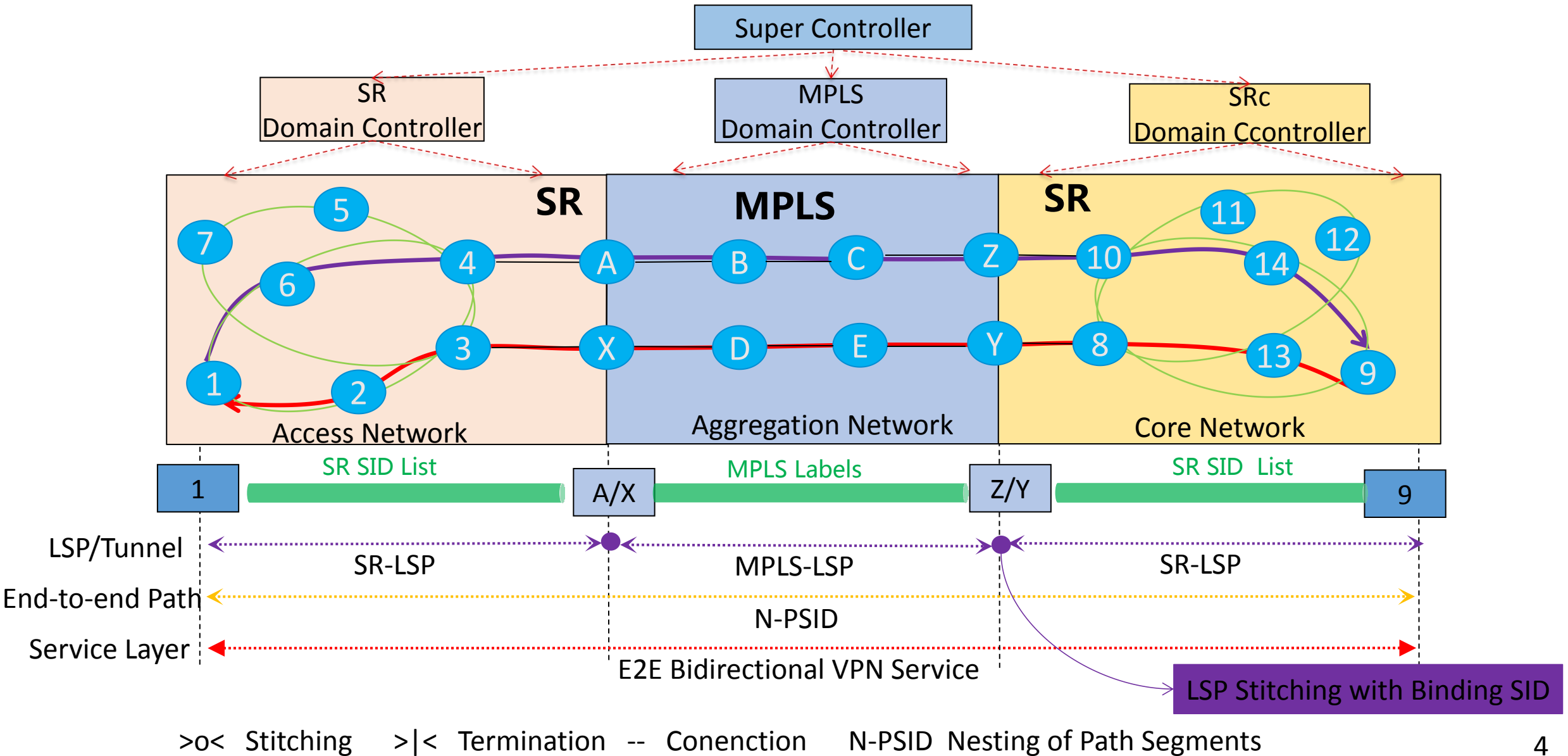


Figure 1: Label Stack with Path Segment

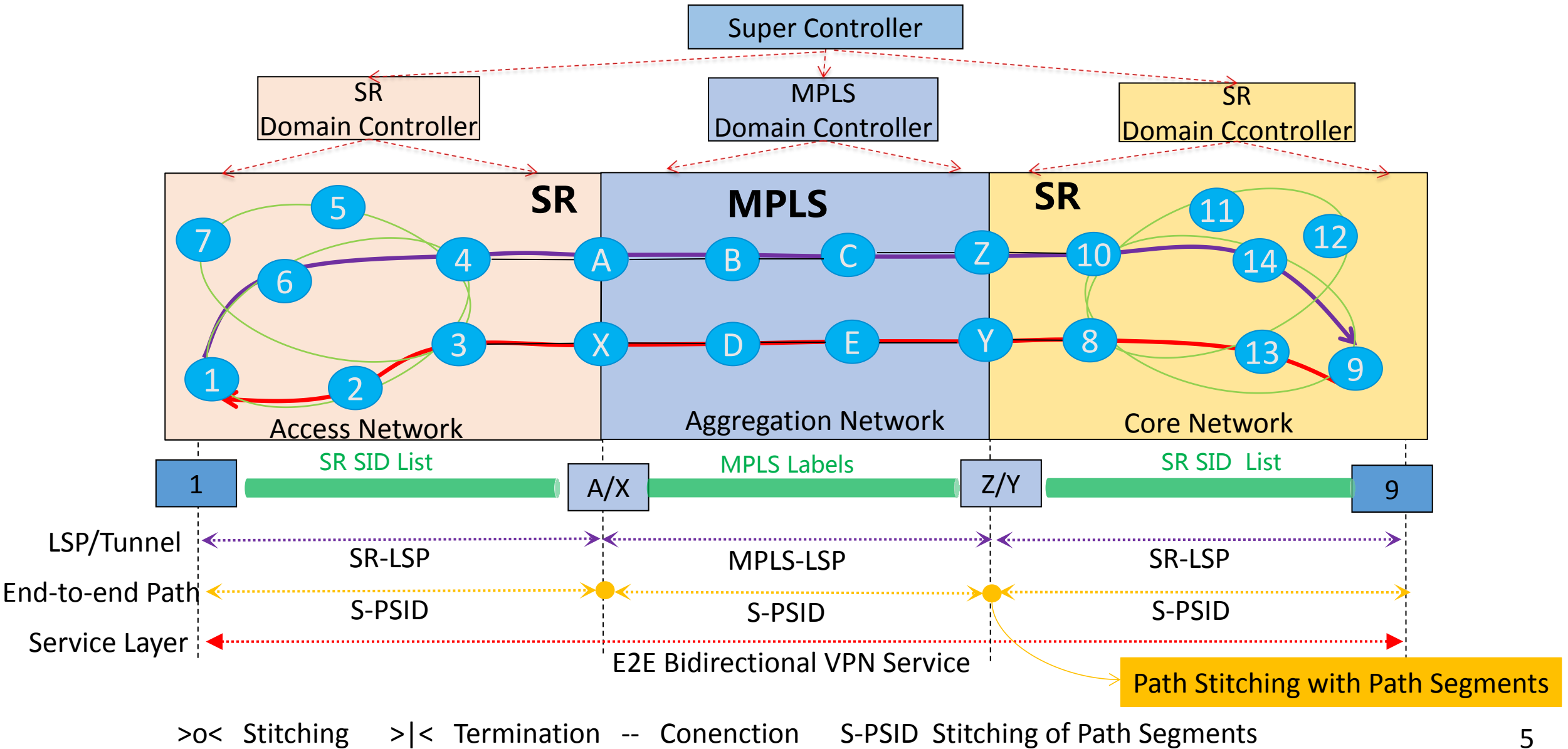
Update from Last Version

- The network interworking in SR-MPLS and MPLS deployment.
 - End-to-end Path Monitoring (PM/Protection/bidirection path correlation)
 - Border Node or Border Link
 - Stitching of Path Segments or Nesting of Path Segments
- End-to-end Path Segment (e-Path/e-PSID)
 - S-PSID
 - The end-to-end path is split into multiple segments and stitched by Stitching of Path Segments or Path SID (S-PSID).
 - N-PSID
 - The nesting of Path Segments or Path SID (N-PSID) presents the end-to-end path and encapsulation in the packet from an SR-MPLS domain to an MPLS domain.
- Binding SID (B-SID)
 - The B-SID could be bound to a SID List or selected path and used to stitch the SR list and the SR Label Switched Paths (LSP) across multiple domains.

Nesting of Path Segments



Stitching of Path Segments



Next Step

- Solutions for SR & MPLS interworkig with Path Segments.
- Comments and discussions are very welcome!

Thank you!