

Stateful PCE for SR Inter-domain

draft-xiong-pce-stateful-pce-sr-inter-domain-01.txt

Quan Xiong(ZTE)

Greg Mirsky(ZTE)

Weiqiang Cheng(China Mobile)

IETF PCE, July 2019, Montreal

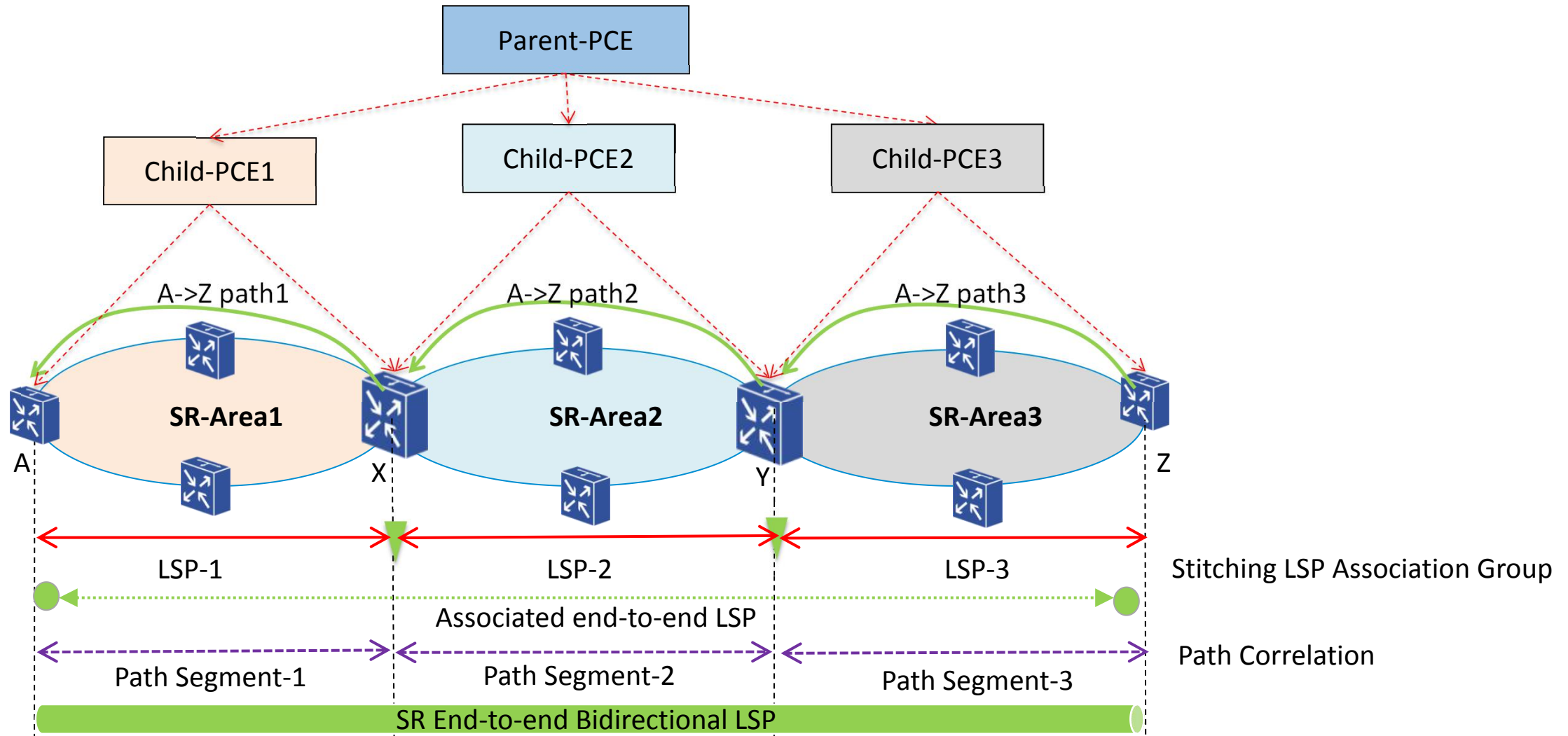
Overview

- Path Segment
 - [ietf-spring-mpls-path-segment-00](#)
 - [draft-xiong-mpls-path-segment-sr-mpls-interworking-00](#)
 - [draft-xiong-spring-path-segment-sr-inter-domain-00](#)
- PCEP extension for bidirectional SR Path with Path Segment
 - [draft-li-pce-sr-path-segment-06](#)
 - [draft-li-pce-sr-bidir-path-05](#)
- PCEP extension for Stateful Inter-domain
 - [draft-dugeon-pce-stateful-interdomain-02](#)
- PCEP extension for Inter-domain end-to-end bidirectional SR Path with Path Segment
 - [draft-xiong-pce-stateful-pce-sr-inter-domain-01](#)
 - [draft-hu-pce-stitching-lsp-association-01](#)

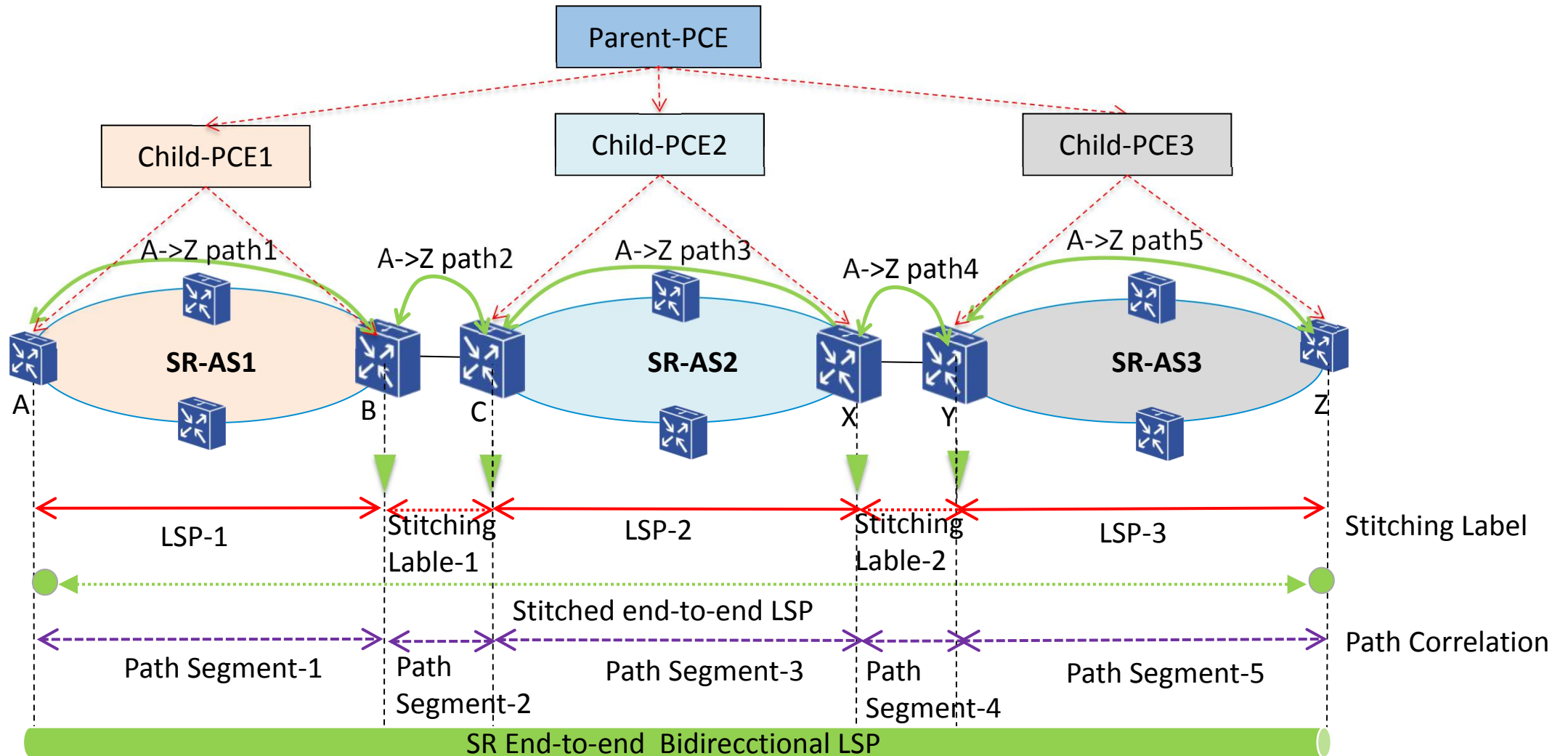
SR inter-domain with PCE

- SR end-to-end bidirectional LSP
 - The SR end-to-end bidirectional VPN service may be achieved with path segment correlation.
 - Bidirectional Path Correlation
 - Inter-domain Path Correlation
 - The Allocation of Path Segment
 - Parent PCE allocated
 - Child PCE allocated
 - PCC allocated
- PCE Solution for Inter-domain
 - Inter-Area or Inter-AS
 - PCC-initiated or Stateful HPCE-initiated

SR Inter-Area Solution with Stitching LSP Association



SR Inter-AS Solution with Stitching Label



Next Step

- Detailed solutions for PCEP.
- Comments and discussions are very welcome!

Thank you!