

draft-filsfils-spring-sr-policy-considerations-01

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Updates Since IETF 101

- Created out of document re-organization of draft-ietf-spring-segmentrouting-policy-00 which was adopted by SPRING WG
- Informational Status
- Majorly comprises the Appendix (Sec 14) of previous version of SR Policy Architecture draft
- Minor changes to clarify details and improve text based on comments/feedback

What is covered by this document ...

- SR Policy Headend Reference Architecture
 - Identifies various components and their interactions
 - Introduces SR Policy Module which learns SR Policy Candidate Paths from signalling protocols (viz. BGP-SRTE, PCEP) and SR Policy Database from IGPs and BGP-LS
- Describes SR Policy Dynamic Path Computation
 - Highlights key aspects necessary to leverage ECMP with SR-native algorithms
 - Discusses various optimization objectives and constraints that can be used
- Candidate Path Selection Examples
 - Explains the tie-breaker rules for active CP selection that are specified in SR
 Policy Architecture draft using examples of paths learnt from multiple sources and protocols

What is covered by this document ... contd.

- SR Policy Distributed and Centralized Control Plane
 - Describes the deployment use-cases and implementation aspects of SR Policy computation and instantiation using both flavors
 - Provides example of how to mix and leverage benefits of both
- Binding SID Aspects
 - Describes the benefits and use-cases for BSID
 - Describes how BSIDs and SR Policies can be discovered and used
- Other Aspects
 - Describes use-cases for SR Policy with Flex Algo SIDs
 - Provides overview of use of Optical/L2 circuits as Segments in an SR Policy (SR Policies in optical domain are covered by draft-anand-spring-poi-sr)

SR Policy Considerations draft objective

- To document implementation aspects and experience
- Describe reference framework
- Cover deployment aspects and use-cases related to SR Policy
- Facilitate deployment of SR Policy solutions in an interoperable manner

Status

- Content is familiar to the WG and reviewed when it was part of the SR Policy Architecture draft
- Was part of the draft-filsfils-spring-segment-routing-policy-05 which passed WG adoption call
- Document has matured with implementation and deployment/use-case experiences of multiple vendors and operators
- Document being updated with clarifications and details based on deployment and implementation experience

Next Steps ...

- Request for WG adoption
- Welcome review and inputs/feedback from WG