Segment Routing Mapped to IPv6 (SRm6)

A Roadmap to the SRm6 project

(Previously known as SRv6+)

Draft-bonica-spring-srv6-plus-06

Changes Since IETF 106

- Title changed
  - At WG request
- Binding SID added
- New Co-author added
  - Luay Jalil, Verizon

SRm6 Document Suit

Title	Status
Draft-bonica-spring-srv6-plus	Mature (overview)
Draft-bonica-6man-comp-rtd-hdr	Mature, interoperable implementations, deployed
Draft-bonica-6man-vpn-dest-opt	Mature, one implementation
Draft-bonica-6man-seg-end-opt	Development in progress
Draft-bonica-lsr-crh-isis-extensions	Mature, interoperable implementations, deployed
Draft-ssangli-idr-vpn-service-srv6-plus	Development in progress
Draft-alston-idr-chr-bgp-signalling	Development in progress
Draft-bonica-6man-crh-helper-opt	New

New Draft – CRH Helper Option

- Idea conceived by Xing Li, Congxiao Bao and Eddie Ruan
- New IPv6 option
- Included in Destination Option header before Routing header
- Provides mapping of 16 or 32-bit SID to 128-bit IPv6 address
  - For selected segment ingress nodes
  - Nodes that cannot participate in SRm6 control plane
- Contains SFIB Helper List
  - Low SID
  - High SID
  - Prefix

Development And Deployment

- POC Code
  - Juniper – LINUX-based
  - Juniper – ASIC-based (MX-series)
  - Liquid – Tool kit based
- Deployment
  - Liquid Telecom
  - Other’s to be announced soon

Drafts That Remain To Be Written

- OSPF Extensions
- YANG Model

Ask

- Please review the most mature drafts ASAP
- Once they are implemented and deployed, changes become more problematic