A YANG data model for Segment Routing in IPv6 (SRv6) support in Path Computation Element communications Protocol (PCEP)

draft-li-pce-pcep-srv6-yang-01

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PCEP - SRv6

- RFC 8664
- I-D.ietf-pce-segment-routing-ipv6

- I-D.ietf-pce-pcep-yang
- Support SR-MPLS
- Near WG-LC

- This I-D
PCEP – SRv6

- Use of PCE (and PCEP) to compute (and convey) SRv6 paths
- Capability Advertisement
  - SRv6 PCE Capability sub-TLV
- A new Path Setup Type (PST)
- A new ERO/RRO sub-object for SRv6
  - Called SRv6-ERO and SRv6-RRO sub-object
- Refer [I-D.ietf-pce-segment-routing-ipv6]
PCEP YANG Structure

- **Entity**
  - The local PCEP speaker

- **Peer**
  - The remote PCEP speaker

- **Session**
  - The current PCEP session between local and remote PCEP speakers

- **SR-MPLS**
  - Capability at entity and peer level
  - PST for LSP and a reference to the TE model
PCEP - SRv6 YANG

- A new PST identity type
- Augment Capability at entity and peer level
  - *Capability enabled*
  - *Multiple MSD types*
- Augment the LSP container in LSP-DB
  - *For SRv6 paths, the segment list is added*
Next Step

- Request more reviews especially the implementers and operators of SRv6.
- The work is in scope of PCE WG and is in stable condition
  - Candidate for WG adoption?
THANK YOU!