



IETF 112 – Online
PCE Working Group

PCEP extension to support Segment Routing Policy Candidate Paths

draft-ietf-pce-segment-routing-policy-cp

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Generic mechanisms

Several “tunnel” mechanisms were standardized as part of SR Policy [draft-ietf-spring-segment-routing-policy]:

- Computation Priority
- Explicit Null Label Policy (ENLP)
- Drop-upon-invalid
- Specified-BSID-only

Even though these were originally standardized for SR Policy, they are applicable to other tunnel types. In this draft, we keep them generic, so that they are automatically applicable to RSVP-TE tunnels.

Specified-BSID-only

When specified-BSID-only is enabled for a particular binding SID, it means that the given binding SID is required to be allocated and programmed for the LSP to be operationally up.

We request a bit in the TE-PATH-BINDING TLV Flags field to signal this behavior.

Note that each LSP can have multiple BSIDs (MPLS, SRv6, etc.) and the value of this flag is per BSID.

Implementation Status

Cisco IOS-XR and Juniper has proof-of-concept with IANA code-points.

Successful interop testing between Cisco IOS-XR and Juniper has recently been done at EANTC.

Next steps

Get feedback from WG.

Request IANA code points for the additional TLVs.