SRv6 Policy
SID List Optimization Advertisement

draft-ali-idr-srv6-policy-sl-opt-distribution-01

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Problem Statement

- In some use cases, an SRv6 policy's SID list ends with the policy endpoint's node SID, and the traffic steered (over policy) already ensures that it is taken to the policy endpoint.
  - For example, service SID, a binding SID for transit policies, an EPE SID
- Carrying back-to-back end-point node SID is inefficient
- The End-point node SID exclusion is not possible in all use cases
  - For example, when the SRv6 policy is used to carry MPLS traffic

Solution Summary

- The draft specifies a BGP-LS extension to indicate whether the endpoint's node SID is included or excluded in installing SID list(s) of the Candidate Path (CP) of an SRv6 policy.

Summary of Changes from v00

- Published a Spring Draft to describe procedures to indicate whether the endpoint's node SID needs to be included or excluded when installing the SRv6 Policy
- Made the flag consistent across Spring, PCE and IDR documents
  - ENS (Endpoint Node Suppression flag)

Proposed Protocol Changes

- ENS (Endpoint Node Suppression) flag in the SR Candidate Path State TLV specified in [I-D- draft-ietf-idr-bgp-ls-sr-policy].
- ENS (Endpoint Node Suppression flag)- 1 bit (Bit Position TBD1):
  - If set to 1 indicates the endpoint node SID is excluded when installing the SRv6 Policy SID list(s) used to carry the data traffic.
  - If set to 0 indicates the endpoint node SID is included when installing the SRv6 Policy SID list(s) used to carry the data traffic.

Next Steps

- Would like to request working group adoption