



# BGP SRv6 Policy SID List Optimization

draft-idr-pce-srv6-policy-sid-list-optimization-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

# Solution Summary

- 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
- The endpoint's node SID inclusion or exclusion is a policy attribute
  - Allow SR Policy API to control the inclusion or exclusion of the Policy Endpoint node SID depending on the type of traffic steered over it.

# Proposed Protocol Changes

- N-flag (endpoint node SID iNclusion flag) is proposed in the SRv6 Binding SID Sub-TLV specified in [I.D-draft-ietf-idr-sr-policy-safi].
- N-flag (endpoint node SID iNclusion flag) in the SR Candidate Path State TLV specified in [I-D- draft-ietf-idr-bgp-ls-sr-policy].

# Next Steps

- Looking for workgroup feedback