

Signaling Entropy Label Capability using OSPF

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Motivation

- [\[RFC6790\]](#) proposes to use Entropy Labels for MPLS traffic load-balancing and therefore defines the signaling of Entropy Label Capability (ELC) via the following label distribution protocols:
 - LDP
 - RSVP-TE
 - BGP
- Segment Routing is a new MPLS paradigm in which IS-IS or OSPF, is used as label distribution protocols. In such scenarios, the ELC signaling mechanisms defined in [\[RFC6790\]](#) are inadequate.
- This document defines mechanisms to signal the ELC using OSPF accordingly.

Advertising ELC using OSPF

- The OSPF Router Information (RI) Opaque LSA defined in [\[RFC4970\]](#) is used by OSPF routers to announce their capabilities.
- A new TLV within the body of this LSA, called ELC TLV (Type=TBD, Length=0) is defined to advertise the capability of the router to process the ELI and EL.
- This ELC TLV is applicable to both OSPFv2 and OSPFv3.

Next Steps

- **WG adoption?**