Signaling Entropy Label Capability using ISIS

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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 IS-IS accordingly.**

Advertising ELC using IS-IS

- **IS-IS Router CAPABILITY TLV defined in [RFC4971] is used by IS-IS routers to announce their capabilities.**

- **A new sub-TLV of this TLV, called ELC sub-TLV (Type=TBD, Length=0) is defined to advertise the capability of the router to process the ELI and EL.**

Next Steps

- **WG adoption?**