



IS-IS Segment Routing Extensions

draft-ietf-isis-segment-routing-extensions-09

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Version 08

- Introduction of the Segment Routing Local Block (SRLB) Sub-TLV
- SRLB Sub-TLV used in order to advertise the range of local labels
 - Currently, an IS-IS router only advertises its SRGB (global SIDs)

Version 08

- In the context of SDN (controller-based) networks, it is necessary for the controller(s) to know what is the local label range of each node
- Thus, the controller may instruct/program the router with the appropriate sid/label value
- The SRLB Sub-TLV aims to provide a mechanism through which a router advertises its SRLB
- The reporting of allocated labels is out of scope
 - E.g.: Adjacency-SIDs are reported by IS-IS
 - Other local SIDs are reported by BGP-LS (e.g.: SR TE Policy)

Version 08

- Removed following text from section 2.4.5
For a given prefix, if both a MS entry with its Prefix-SID Sub-TLV and a Prefix TLV (e.g.: TLV135) with its Prefix-SID are received, the Prefix-SID advertised within the Prefix TLV MUST be preferred while the MS entry MUST be ignored
- Preference rules between SIDs are described in draft-ietf-spring-conflict-resolution

Version 09

- Introduction of the SRMS Preference Sub-TLV
 - SR Mapping Server preference mechanism
- Allows to apply a preference rule when multiple mapping server advertisements are received
- The preference applies to the SRMS, not to the individual advertisement
- Simple mechanism

Version 09

- Clarified behavior for SRMS Preference, SRLB and SR Capability Sub-TLVs
 - Only one sub-TLVs MAY be originated
 - In case of multiple occurrences of the same Sub-TLV is received, the behavior is:
 - ~~Undefined~~
 - Prefer the first Sub-TLV of the lowest number LSP

Questions?

Thanks!