Updates to Anycast Property advertisement for OSPFv2
draft-chen-lsr-anycast-flag-04

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Motivation

- Both SR-MPLS prefixes-SID and IPv4 prefix may be configured as anycast and as such the same value can be advertised by multiple routers. It is useful for other routers to know that the advertisement is for an anycast identifier.
- Each prefix is advertised along with an 8-bit field of capabilities, by using the flag field in the OSPFv2 Extended Prefix TLV [RFC7684], but the definition of anycast flag to identify the prefix as anycast has not yet been defined.
- This document updates [RFC7684], by defining a new flag in the OSPFv2 Extended Prefix TLV Flags [RFC7684] to advertise the anycast property.
Extensions

• Updates to Anycast Property advertisement for OSPFv2
  – [RFC7684] defines one-octet field contains flags applicable to the prefix, and a new bit in OSPFv2 Extended Prefix TLV Flags [RFC7684] is defined to advertise the anycast property:

• Updates to Anycast Property advertisement for BGP-LS
  – Extends the interpretation of the Flags field of the Prefix Attribute Flags TLV:
    – OSPFv2 flags correspond to the Flags field of the OSPFv2 Extended Prefix TLV defined [RFC7684] and the AC-Flag of the OSPFv2 Extended Prefix TLV Flags defined in Section 2 of this draft.
Update

• Removed extensions for ospfv3, and this part has been added to the draft-ietf-lsr-ospfv3-srv6-extensions.
• Following the extension of RFC7684, and defined a new flag in the OSPFv2 Extended Prefix TLV Flags[RFC7684] to advertise the anycast property.
Next Step

• Comments welcome.

• WG adoption 😊

Thanks!