OSPF Routable IP Address in OSPF RI LSA

draft-xu-ospf-routable-ip-address-00

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OSPF Routable IP Address in RI LSA

Why ?

OSPF routers in one area to find correlations between routable IP addresses and capabilities of OSPF routers in another area

- http://tools.ietf.org/html/draft-xu-ospf-mpls-elc-00
  - For identifying the ELC TLV originating node IP address in another area
    [useful when EL (RFC 6790) Signaling is done through OSPF]

- http://tools.ietf.org/html/draft-bhatia-ospf-sbfd-discriminator-00
  - For identifying the S-BFD Discriminator TLV originating node IP address in another area

How?

Through new TLV (S) in OSPF (OSPFv2, OSPFv3) RI Opaque LSA [RFC 4970]

- Routable IPv4 Address TLV
  - One or more routable addresses can be carried over in RI LSA
  - TYPE (TBD), Length (Variable, Multiple of 4)
  - Applicable to OSPFv2
  - Scope: Depends on application - SHOULD be AS wide

- Routable IPv6 Address TLV
  - One or more routable global addresses can be carried over in RI LSA
  - TYPE (TBD), Length (Variable, Multiple of 16)
  - Applicable to OSPFv3
  - Scope: Depends on application - SHOULD be AS wide

Next Steps:

Request for WG adoption..

Questions & Comments?

Thank You!