draft-ietf-lsr-flex-algo

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Context

• WG LC was done
• Publication was requested on October 22\textsuperscript{nd}, 2020
• The Routing Directorate review is marked as complete
• OSPF specific missing pieces were discovered during the implementation
  • would make the base Flex-Algorithm specification incomplete
• Added the missing parts
• Ask WG to review the changes
• Do another WG LC
OSPF Flexible Algorithm Prefix Metric Sub-TLV

- New single byte Flags field was added
- Portion of the Reserved field was used
  - no backward compatibility issue
- E bit: if the bit is set, the metric specified is a Type 2 external metric
  - This is semantically the same as E bit in section A.4.5 of [RFC2328]
  - Applies to OSPF External and NSSA external prefixes
OSPF Flexible Algorithm ASBR Reachability Advertisement

- OSPFv2 Extended Inter-Area ASBR LSA
  - semantically similar to Type-4 Summary LSA in base OSPFv2
- OSPFv2 Extended Inter-Area ASBR TLV
  - Advertises flex-algo specific reachability information for ASBR located in other area
- OSPF Flexible Algorithm ASBR Metric Sub-TLV
  - Advertises flex-algo specific metric for the remote ASBR
  - Multiple these TLVs, one per flex-algo, can be carried in the parent TLV
  - Parent TLVs:
    - OSPFv2 Extended Inter-Area ASBR TLV
    - OSPFv3 Inter-Area-Router TLV defined
OSPFv2 EIA-ASBR LSA Advertisement and Processing

• Section 10.3. added
  • OSPFv2 EIA-ASBR LSA Advertisement and Processing

• Section 13.1 extended
  • Multi-area and Multi-domain Considerations
OSPF IANA Considerations

• Updated with the new code points for:
  • OSPFv2 Extended Inter-Area ASBR LSA
  • OSPFv2 Extended Inter-Area ASBR TLV
  • OSPF Flexible Algorithm ASBR Metric Sub-TLV
  • OSPF Flex-Algorithm Prefix Metric Bits
Next Steps ...

- Ask WG to review the latest additions and modifications
- WG Last Call