Advertisements of Stub Link Attributes

draft-wang-lsr-stub-link-attributes-05

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Updates of the Draft

• Simplify the "Introduction" part significantly, state clearly the intentions and applied scenarios of this draft.

• Simplify the comparative of the existing solutions, emphasis on the necessary on the proposed solution.

• Some encoding change of the OSPF/IS-IS Stub-Link TLV.

• Detail descriptions for the possible applied scenarios that introduced in the IETF 114 meetings (in Appendix part for further reference)
What The Proposal Want To Solve?

- **draft-ietf-idr-bgpls-inter-as-topology-ext** defines the process to retrieve the inter-AS topology, the internal router that run BGP-LS should know the stub links info at the border routers.
- Require all border routers run BGP-LS is not realistic; configure manually on every stub link for the related information can't be easily convincible.
- We are trying to find one automatic solution for this scenario, together with other possible situations.
OSPFv2/3 & IS-IS Extension Proposal

- OSPFv2/3 & IS-IS take the similar format.
- Newly defined “Link Prefix” sub-TLVs to contain the prefix of the stub link.
- Included in the corresponding LSA/PDU
- Prefix Sub-TLV is not the identifier of the stub link, it is one kind of stub-link attributes

OSPFv2/3 & IS-IS Stub-Link TLV
Other Possible Application Scenarios

- The proposed solution can also be applied in the following scenarios:
  - Inter-AS topology recovery (LAN scenario/IX center)
  - Egress Engineering for Anycast Server
  - Optimized BGP next hop selection

- Please refer the [draft-wang-lsr-stub-link-attributes-05#appendix-A](draft-wang-lsr-stub-link-attributes-05#appendix-A) for detail.
Further Plan

• Comments?
• To forward it as WG Document if the updates address the previous concerns.

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