Advertising Link State (Topology) Information in BGP

draft-gredler-idr-ls-distribution-02

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Update

• Code points cleanup
• Move Link State Attributes into BGP Path Attributes
• NLRI:
  – Type 1: Link Descriptor
  – Type 2: Node Descriptor
• BGP Path Attributes
  – Link Attributes TLVs
  – Node Attributes TLVs

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History

- Draft initially described a mechanism to carry Traffic Engineering IGP extensions into BGP
- Later extended to any link-state and topology information
- Allows aggregation and virtualization
  - I.e.: not bound to IGP subTLVs
- Multiple use cases
  - When topology has to be distributed outside routing elements
  - E.g.: ALTO server
  - E.g.: Multi Domain PCE servers
- Addressed initial concerns/comments
  - PCE use case
  - Isolation from BGP-4
- Three implementation exists
  - Wireshark tool available
Next steps

• WG Item ?
• Initiate the implementation report and interoperability draft