

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

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