

Distribution of MPLS TE LSP State using BGP

draft-dong-idr-te-lsp-distribution-00

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Background

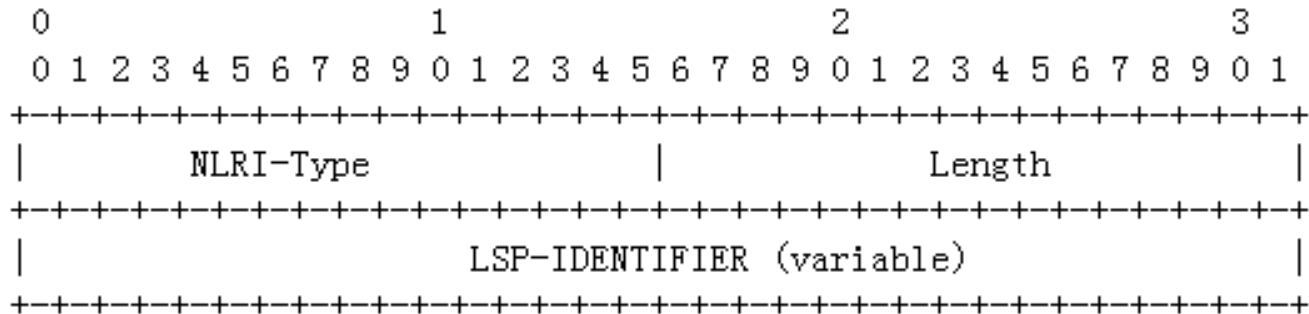
- The states of established LSPs are required by some external components
 - Stateful PCE, for path computation
 - In management based PCE scenario, PCEP session may not be established between LERs and PCE
 - Centralized controller, for service placement
 - NMS, for network visualization
 - ...
- A general mechanism is needed to collect the states of established TE LSPs

Background (cont.)

- BGP has been extended to distribute Link-State and Traffic Engineering information
- A unified protocol/interface for collecting network layer information is desired
- This document extends BGP to distribute TE LSP states

Proposed Solution

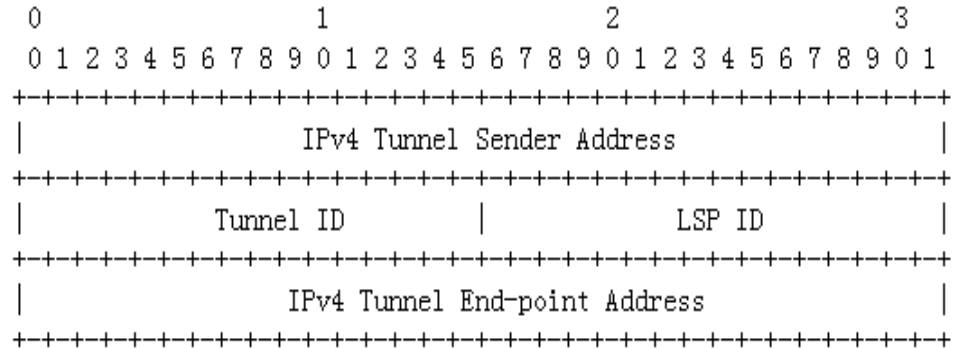
- A new NLRI “LSP Information NLRI”
 - AFI value is TBD, SAFI = 1 for public network



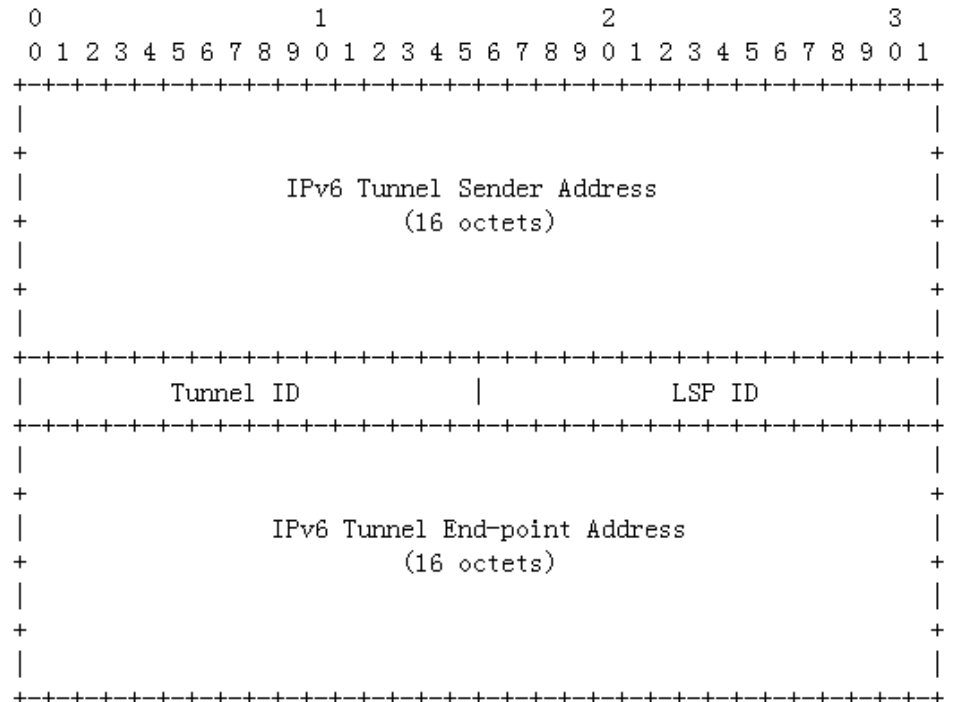
- NLRI-Type = 1: IPv4 LSP NLRI
- NLRI-Type = 2: IPv6 LSP NLRI

Proposed Solution (2)

– IPv4 LSP Identifier



– IPv6 LSP Identifier



Next Steps

- Solicit comments & contributions
- Improve the draft