

Distribution of TE LSP State using BGP

draft-dong-idr-te-lsp-distribution-03

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Background

- The states of TE LSPs are required by some external components
 - Centralized Network Controller
 - Stateful PCE
 - NMS
 - ...
- A general mechanism is needed to collect and distribute the states of TE LSPs
 - draft-ietf-idr-ls-distribution describes a mechanism to distribute link state and TE information using BGP
 - This document extends the scope of draft-idr-ls-distribution for TE LSP states

Proposed Solution

- Two new “NLRI Type” in the BGP Link State NLRI:
 - NLRI Type = 5: IPv4 TE LSP NLRI
 - NLRI Type = 6: IPv6 TE LSP NLRI
- A new TLV in BGP LINK_STATE Attribute
 - Describes the attributes & states of TE LSPs
 - path, metric, bandwidth, protection, admin status, etc.
 - TE LSP objects are regarded as Sub-TLVs

Updates after IETF85

- BGP extensions comply with draft-ietf-idr-ls-distribution
- New co-authors
 - Hannes Gredler
 - Stefano Previdi
- Editorial changes

Next Steps

- Appreciate comments from WG
- WG adoption?