

Traffic Engineering Database dissemination for Hierarchical PCE scenarios

IETF WG, IETF90, Toronto

draft-lopez-pce-hpce-ted-02

Victor Lopez vlopez@tid.es

Oscar Gonzalez de Dios ogondio@tid.es

Daniel King daniel@olddog.co.uk

Stefano Previdi sprevidi@cisco.com

Jeff Tantsura <jeff.tantsura@ericsson.com>

Motivation

- Goal of draft-lopez-pce-hpce-tes-01:
- Analyse how topology dissemination mechanisms may be used to provide TE information between Parent and Child PCEs
- Analysed options:
 - Static configuration
 - Join IGP instance
 - PCEP Notifications
 - Separate IGP instance
 - Northbound distribution of TE information (BGP-LS)

Feedback from IDR

- Use case of BGP-LS for H-PCE was presented in idr WG meeting in IETF 89th
- Idr asked what did we see missing in BGP-LS for our use case.
- Optical extensions for OSPF-TE/IS-IS-TE are not yet defined.
- Idr replied we should add it to BGP LS as well.

Changes from -01

- Explain Mapping of OSPF-TE to BGP-LS
 - Node Descriptors
 - Link Descriptors
 - Mapping OSPF TE parameters into BGP-LS attribute

Open issues

- Is BGP-LS the way forward?
- Mapping of OSPF-TE / IS-IS-TE
- Can Intra-domain links be distributed to parent PCE?

Next Step

- Trigger discussion on which mechanism should be used
- Receive feedback