Conveying Policies associated with Traffic Engineering Paths over PCEP Session

draft-sivabalan-pce-policy-identifier-00.txt

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Motivation

Example 1

Policy: PCE wants to instantiate and monitor it using BFD

Example 2

Policy: PCC1 and PCC2 require diverse paths

A generic mechanism for opaquely carrying policies over PCEP channel enables operators to introduce and deploy policies faster.
Proposed Approach

• New OPTIONAL TLV called “POLICY-ID-TLV” is introduced:

• The TLV contains:
  – A numeric policy Identifier
  – A flag to indicate if the policy associated with the TLV is mandatory
  – Optional one or more VENDOR-INFORMATION-TLV(s)

• The TLV is associated with LSP object, and can be carried in PCInitiate, PCRpt, PCUpd, PCReq, and PCRep messages.
Next Step

- Have real use-cases.
- Already supported by multiple implementations
- Early IANA code-point allocation will be requested soon.
Thank You !