PCEP Extensions for Establishing Relationships Between Sets of LSPs

draft-minei-pce-association-group-03

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Ina Minei (inaminei@google.com)
Edward Crabbe (edward.crabbe@gmail.com)
Siva Sivabalan (msiva@cisco.com)
Hariharan Ananthakrishnan (hari@packetdesign.com)
Xian Zhang (zhang.xian@huawei.com)
Yosuke Tanaka (yosuke.tanaka@ntt.com)
Dhruv Dhody (dhruv.ietf@gmail.com)
What this draft is about

- A generic mechanism to create an association of LSPs
  - disassociation also supported

- What can be associated?
  - two sets of LSPs (for example primary and backup)
  - a set of LSPs with a set of attributes - for example configuration parameters for LSP sets

- This draft provides the infrastructure for creating such an association. TLVs for specific uses are defined separately
  - primary/backup association for protection
  - LSPs and attributes association
Changes from version 02

- Encoding now (partially) aligned with the RSVP-TE ASSOCIATION object:
  - Type: 4 bits => 16 bits
  - Association ID: unchanged BUT COMPATIBLE
  - Association Source: unchanged since tied with error handling

- Handling unexpected session termination
  - Introduced the “association timeout interval”- a PCC local parameter with value larger than the delegation timeout interval, and smaller than the state timeout interval.
  - All PCE-created associations are cleared up when the association timeout interval time expires.
The association object

Type: 16 bits - the association type (for example protection). The association type will be defined in separate documents.

Flags: 16 bits – only one defined: R (Removal - 1 bit): when set, the requesting PCE peer requires the removal of an LSP from the association group.

Association ID: 32 bits - the identifier of the association group.

Association Source: 4 or 16 bytes - An IPv4 or IPv6 address, which is associated to the PCE peer that originated the association.

Optional TLVs: Variable - no TLVs are defined in this document.

Figure 1: The IPv4 ASSOCIATION Object format
Next steps

• Several other drafts depend on this draft.
• The authors are asking for the draft to be considered for WG adoption.