Generic PCEP Association & Protection Association Type

draft-ietf-pce-association-group-04
draft-ananthakrishnan-pce-stateful-path-protection-04
Association WG draft

- draft-ietf-pce-association-group-04
  - -03 was presented in IETF 99 remotely

- A generic mechanism to create a grouping of LSPs in the context of a PCE.
  - ASSOCIATION Object is defined for this purpose.
  - Support for Dynamic Association (protection) as well as Operator-Configured Associations (policy)

- IANA early code-point allocation was done!
  - Thanks Chairs, AD
Association Types

Generic Association

- WG
  - Diversity: draft-ietf-pce-association-diversity-02
  - Policy: draft-ietf-pce-association-policy-01
- Individual
  - Protection: draft-ananthakrishnan-pce-stateful-path-protection-04
  - Bidirectional: draft-barth-pce-association-bidir-03
  - Resource Sharing: draft-zhang-pce-resource-sharing-05
  - VN Association: draft-leedhody-pce-vn-association-03
  - MBB: draft-tanaka-pce-stateful-pcembb-04
  - Multi-Layer: draft-xiong-pce-multilayer-lsp-association-01

On the agenda today!

Generic Association is useful and ready for WG LC!
Protection Association Draft

- draft-ananthakrishnan-pce-stateful-path-protection-04
- The very first association type that was originally published in June 2014
  - along with generic association draft
- -01 version was last discussed during IETF 95 (Buenos Aires)
- What: PCEP extension to associate 2 or more LSPs to provide path protection!
- How: Define “Path Protection Association Type” and re-use ASSOCIATION object.
  - Path Protection Association Group (PPAG)
  - Path Protection Association TLV where flags are defined
    - P (PROTECTION-LSP) - Working or protection LSP
    - S (STANDBY) - standby mode (protection LSP established prior to the failure)
Update Since -01

- Text around ‘dynamic association’ as per draft-ietf-pce-association-group-04
- Error Handling text
  - The endpoints and Tunnel ID MUST be same for all LSPs in the association group
- Procedures for various Stateful PCE operations
- Security and Manageability Considerations
- Editorial changes to make text aligned to other documents

- WG Adoption?
  - Useful feature
  - Draft has been stable and a good base for the WG
  - Known Implementation
Thank you!