PCEP Extensions for MPSL-TE LSP Path Protection with stateful PCE

draft-ananthakrishnan-pce-stateful-path-protection-01

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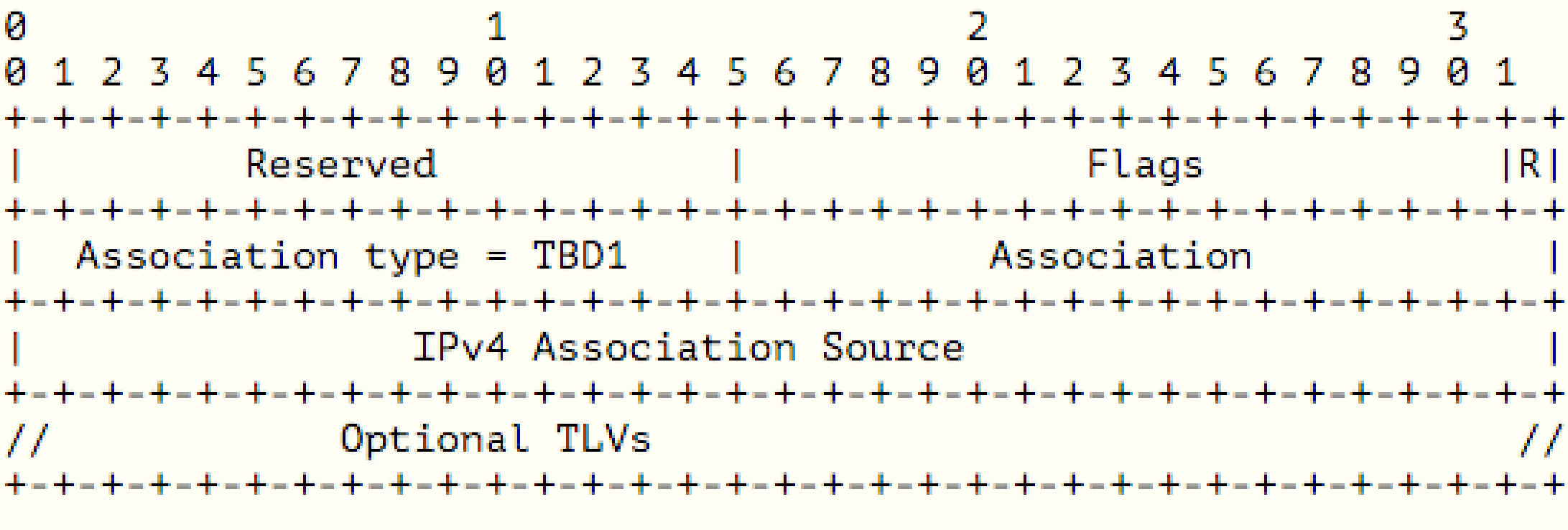
What this draft is about

- PCEP extension for MPLS-TE LSP Path protection with stateful PCE
  - Uses association group mechanisms to set path protection
  - Disassociation also supported
- What can be associated ?
  - PCE initiated LSP
  - PCC controlled LSP
- The draft uses the infrastructure for creating associations from draft-ietf-pce-association-group
  - Extends the association for protection with new association type and TLV.

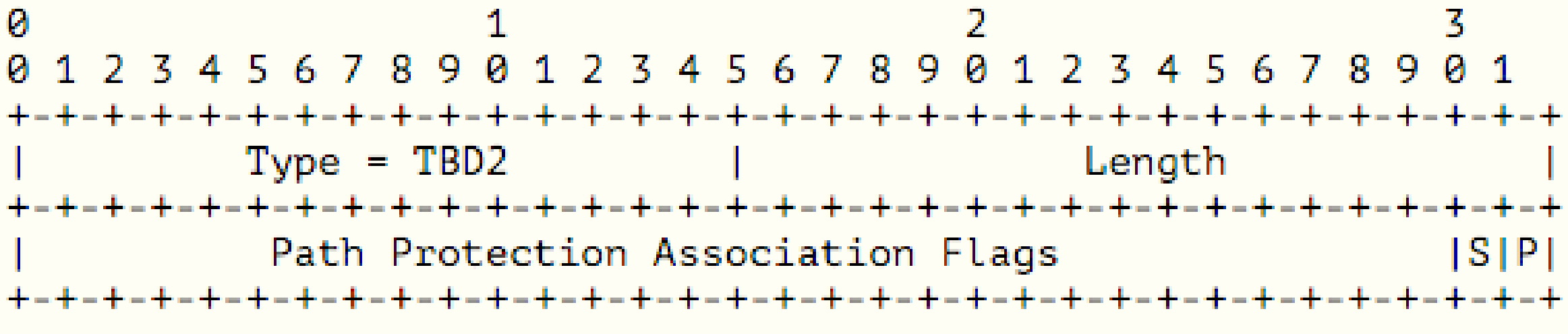
Changes from version 00

- Adapted the draft to accommodate changes from base association draft
  - New association type for path protection
  - New TLV for secondary and pre-signalled LSP
- Handling error when more than one working LSP is associated with the same group

Path Protection Association Object



Path Protection Association TLV



- P (PROTECTION-LSP 1 bit) - Indicates whether the LSP associated with the path protection association group is working or protection LSP. If this flag is set, the LSP is a protection LSP.
- S (STANDBY 1 bit)- When the P flag is set, the S flag indcates whether the protection LSP associated with the PPAG is in standby mode. The S flag is ignored if the P flag is not set.
- If the Path Protection Association TLV is missing, it means the LSP is the working LSP.

Next Steps

- The authors are asking for the draft to be considered for WG adoption.