PCECC Extensions

draft-ietf-pce-pcep-extension-for-pce-controller-01

draft-zhao-pce-pcep-extension-pce-controller-sr-04

Mahendra Singh Negi, Huawei

Chao Zhou, Cisco

Zhenbin Li, Huawei

Quintin Zhao, Huawei

PCECC – PCE as a Central Controller

- RFC 8283 is published a while back
 - An architecture for use of PCE/PCEP in a network with central control.
 - Introduces the architecture for PCE as a central controller and examines the motivations/applicability for PCEP as a control protocol in this environment.
- PCECC Extensions
 - Basic PCECC [I-D.ietf-pce-pcep-extension-for-pce-controller]
 - Recently adopted
 - PCECC-SR [I-D.zhao-pce-pcep-extension-pce-controller-sr]
 - In WG adoption Queue

Major Updates to both I-Ds

- Support for Binding SID
 - PCECC can assign the Binding SID itself
 - Reuses the TE-PATH-BINDING TLV as per [I-D.sivabalan-pce-binding-label-sid]
- Support for PCC Allocations (as instructed by PCECC)
 - PCECC can request the PCC to allocate a label for a particular instruction
 - No need to control the label space at the PCECC (useful in some scenarios)

- A new flag in CCI object called C-Bit for 'PCC Allocation'.
 - Indicates that the allocation needs to be done by the PCC
- PCECC sets the flag and Label=0
- PCC allocates a label and report it to the PCECC with flag set and Label=L1











Our Ask

- Comments on the recent changes?
- Feedback from other implementers!
- Hope to see PCECC-SR adoption call soon.

Thanks!

Any Questions?