Extensions to the PCEP to compute service aware LSP.

draft-dhody-pce-pcep-service-aware-05

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Requirements

- Many service providers want performance metric SLAs –
  - Latency (delay)
  - Latency-Variation (jitter)
  - Packet loss

- Important Applications/Scenarios
  - Electronic Financial Market
  - High Performance computing on Cloud

- Moving forward the service aware network will become more and more critical and important to consider these parameters during path computation itself.

- Extension to PCEP to support Latency, Latency-variation and Loss as constraints for end to end path computation.

- Similar requirements are also being addressed by CCAMP, OSPF and ISIS WGs.
Updates from -04

- Merged the following drafts
  - draft-ali-pce-additional-of-and-metric-00
  - draft-dhody-pce-pcep-service-aware-04
Solution Background

- The METRIC object is defined in RFC5440.
- RFC5440, RFC5541 and RFC6006 define various Metric Types.
Solution

- Solution is simple; define new metric types for latency, latency variation and loss metrics.

- New Metric Object Types
  - P2P Latency Metric
  - P2P Latency Variation Metric
  - Packet Loss Metric
  - P2MP Latency Metric
  - P2MP Latency Variation Metric

- Relationship with Objective Functions is discussed
Next Steps

• We would like to make this draft a WG Document.
Questions and Comments?
Thank You.