

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

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- 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.