

Extensions to the PCEP to compute service aware LSP.

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Changes since the last version

Inter-Layer Consideration

- Lower-layer LSPs are advertised as TE links into the higher-layer network to form **Virtual Network Topology (VNT)**.
 - Include **Network Performance metric** (delay, jitter, packet-loss) based on the end to end value of lower-layer LSP.
- Metrics in PCReq are applied to **end to end path computation**, though the path may cross multiple layers.

Stateful PCE

- A Path Computation LSP State Report message (**PCRpt**) encodes the **metric-list** as part of attributes
 - The real Network Performance metric MAY be reported to stateful PCEs using this mechanism.

Others

- Editorial changes and readability improvements

Current Status and Next Steps!

- No open issues.
- More feedback from the WG.

Questions
&
Comments?

Thanks!

Backup Slides

Introduction

- 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.