MPLS Multiple Topology Applicability and Requirements

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Overview

- There are mainly 4 parts
  - Applicability
  - Service requirements
  - Provider requirements
  - Engineering requirements

- Most are included in draft 00, which was presented in IETF79

Updates

- In this version of the draft, section 3.8 “IPv6 deployment in IPv4 backbone” is added
  - Without MPLS MT, IPv6 traffic is encoded into MPLS forwarding and mixed with IPv4 traffic regardless using 6PE or 6VPE. There are the following problems
    - difficult to get IPv6 real time statistics and impossible to accurately forecasting and planning of new IPv6 applications
    - bring challenge to enforce control route and policy with the increasing amount of routes in one topology
  - With MPLS MT, a logical isolated end to end IPv6 plane can be obtained. IPv4 and IPv6 plan are decoupled. It is very helpful to resolve the above problems

Next Steps

- We would like to get more feed back from the working group for those drafts.
- We would like to ask the working group chairs to consider to adopt this draft as working group document.