L3VPN scaling considerations

Draft-gs-vpn-scaling

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Draft objective

- Discuss challenges in large-scale L3VPN deployments
  - Deployment considerations for operators
  - Implementation/protocol considerations
- Common problems at scale, BCP and gaps for:
  - PE-CE routing protocols
  - Multicast
  - Network events
  - General route scale
- Discuss gaps in tools for modeling and capacity planning

To Do list

Are these things important to add?

- Inter-AS VPN NNI scaling considerations
  - separate discussions on 10A, 10B/hybrid, 10C?
- Label Exhaustion
- BGP Fast External Fallover
- additional scaling considerations if using L2TPv3 or RSVP-TE tunneling for PE-PE transport
- Future scaling considerations
  - MPLS-TP at the edge
  - interworking with L2 technologies
  - significant increases in density
  - bolster SDN/Openflow section

Next steps

- Need contributors for multicast sections
- Need additional substantive reviews, especially from other large L3VPN operators
- Adopt as WG item?