

Scaling of MPLS VPNs

Proposed Non-Working Group Forming BoF

IETF 89 – London

Xxxday, yy:zz-aa:bb

Issues and Concerns

- **What type of scaling are of interest?**
 - **Size of VPNs**
 - Number of sites
 - Number of prefixes
 - Size of multicast trees
 - "Distance" between sites (multi-AS)
 - **Number of VPNs**
- **What are the real scaling points**
 - **MPLS specific**
 - **VPN specific**

Drafts already posted-I

Note this is a layman's approximation, some might have been missed other added by mistake

- **CCAMP**

- draft-fedyk-ccamp-uni-extensions

- **L3VPN**

- draft-gs-vpn-scaling

- draft-xu-l3vpn-virtual-subnet

- draft-renwei-l3vpn-big-label

Drafts already posted - II

- **L2VPN**
 - **draft-zhang-l2vpn-evpn-selective-mcast**
 - **draft-sd-l2vpn-evpn-overlay**
 - **draft-rabadan-l2vpn-evpn-prefix-advertisement**
 - **draft-hao-l2vpn-evpn-mhn**

Drafts already posted - III

- **MPLS**
 - draft-renwei-mpls-big-label
 - draft-li-mpls-mega-label
 - draft-li-mpls-label-stack-distribution
 - draft-li-mpls-global-label-usecases
- **NVO3**
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- **PWE3**
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Desired outcome

- **List Critical scaling issues**
- **Commonality between the scaling issues**
- **Coordinate and kick-start necessary work in the correct place.**
- **Action Items**

BoF Preparing Process

- **Announce the BoF as early as possible**
(preliminary here in Vancouver)
- **Request contributions**
- **Stuckees**
- **Build Agenda**

BoF Agenda (outline)

- **Presentation 1**
 - Clarifying questions
- **Presentation 2**
 - Clarifying questions
- **Presentation 3**
 - Clarifying questions
- **Discussion**
- **Summary**